ORDER NO. ACED040344C3

Service Manual

AUTOMOTIVE AFTERMARKET

COMPACT disc DIGITAL AUDIO TEXT WMA MP3

CQ-C7300W

Removable Full Front MP3 WMA CD Player / Receiver with CD Changer Control

SPECIFICATIONS

Specifications*	
General	
Power Supply	DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls	Bass ; ±12dB at 60Hz Treble ; ±12dB at 16kHz
Current Consumption	Less than 2.2A / (CD mode ; 0.5W 4-speaker)
Maximum Power Output	50W×4 (at 4 Ω)
Power Output	22W×4 (DIN45 324, at 4 Ω)
Speaker Impedance	4-8 Ω
Pre-out	5V / 60 Ω
Subwoofer-out	5V / 60 Ω
External Input Impedance	10k Ω (AUX IN)
External Input Sensitivity	200mVrms (AUX IN)
FM Stereo Radio	
Frequency Range	87.5MHz - 108MHz
Usable Sensitivity	6dB/ μ V (S/N 30dB)
Stereo Separation	35dB (1kHz)

AM Radio	
Frequency Range	**531 - 1 602kHz**
Usable Sensitivity	**28dB/ μ V (S/N 20dB)**
CD Player	
Sampling Frequency	**8 times Oversampling**
DA Converter	**MASH 1bit/4 DAC System**
Errer Correction System	**Panasonic Super Decoding Algorithm**
Pick-Up Type	**Astigma 3-beam**
Light Source	**Semiconductor Laser**
Wave Length	**780nm**
Frequency Response	**5Hz - 20kHz (±1dB)**
Signal to Noise Ratio	**96dB**
Total Harmonic Distortion	**0.01% (1kHz)**
Wow and Flutter	**Below measurable limits**
Channel Separation	**75dB**
Dimensions (W×H×D)**	**178mm×50mm×155mm**
Weight**	**1.6kg**

*** Specifications and the design are subject to possible modification without notice due to improvements.**

**** Dimensions and Weight shown are approximate.**

-Above specifications comply with EIA standards.

Panasonic

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C)**
- **This lead free solder will be used for the products after serial No. 1,000,001.**

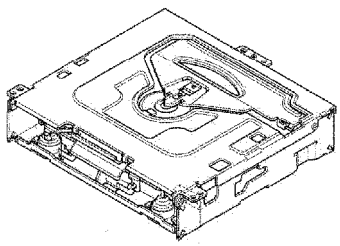
2. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Visible and invisible laser radiation when open. Avoid direct exposure to beam.



Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3. FEATUERS

- **Digital servo for reliable playback.**
- **PLL (Phase Locked Loop) synthesized tuning.**

- 18-FM, 6-AM presets with preset scan.
- CD Changer Control
- Removable face plate.
- MP3/WMA Playback
- 7-band preset equalizer
- Display color setting

4. REPLACING THE FUSE

Use fuses of the same specified rating (15amps). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

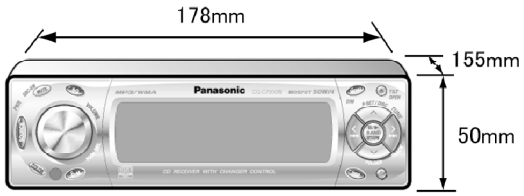
5. MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

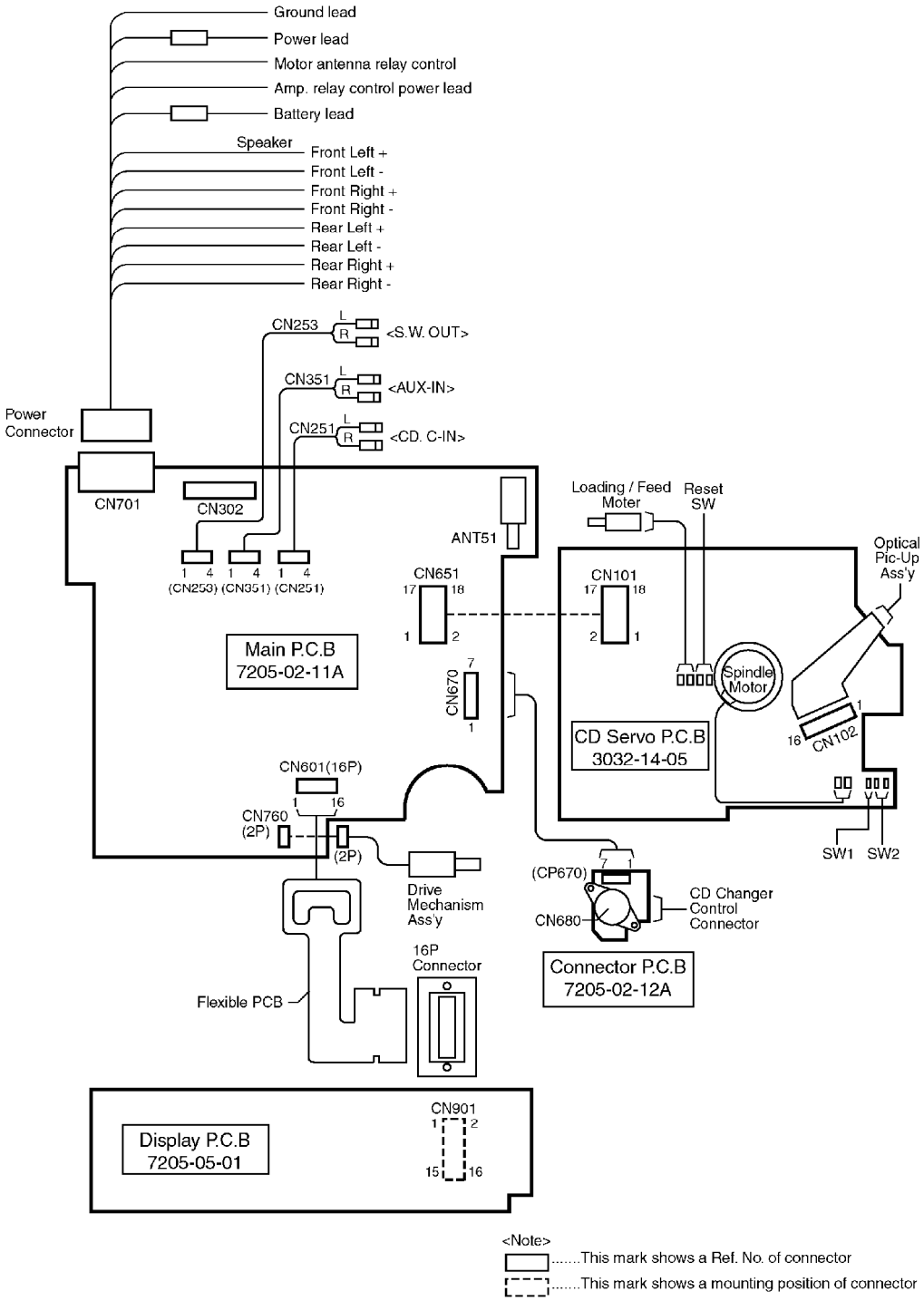
6. NOTES

[RADIO BLOCK]
Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.
[CD DECK BLOCK]
This model has no servo alignment points because microcomputer controls the servo circuit.

7. DIMENSIONS



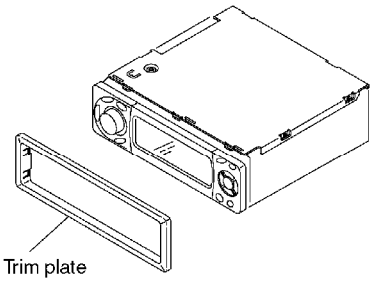
8. WIRING CONNECTION



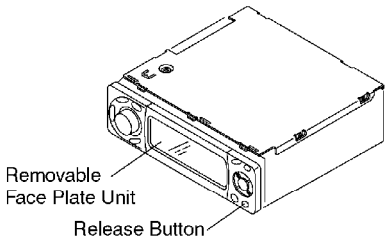
9. DISASSEMBLY INSTRUCTIONS

■ How to remove the Flexible PCB

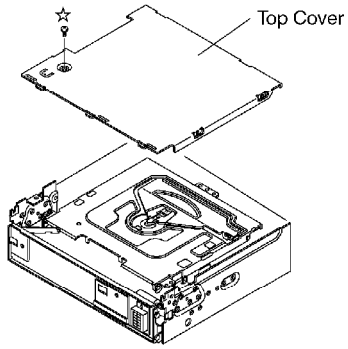
1. Remove the Trim Plate.



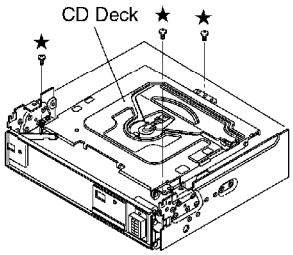
2. Remove the Removable Face Plate unit by pressing the Release Button.



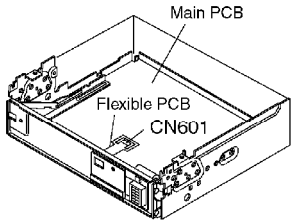
3. Remove the screw(☆) and remove the Top Cover.



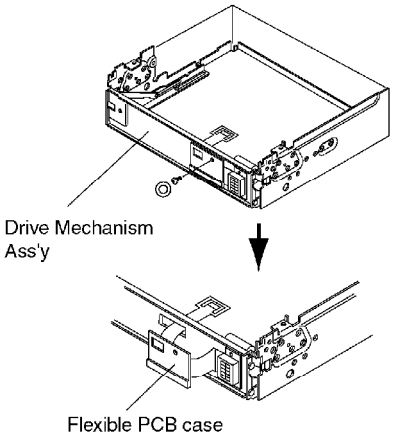
4. Remove the 3 screws(★) and remove the CD Deck.



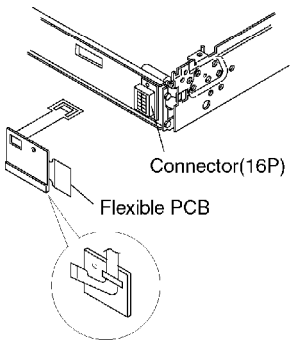
5. Remove the Flexible PCB from the CN601 (Main PCB).



6. Remove the screw(◎) from the Drive Mechanism Ass'y and remove the Flexible PCB case.



7. Remove the Flexible PCB from the Connector(16P).



10. TERMINALS DESCRIPTION

10.1. Main Block

IC601 : YESAM259

Pin No.	Port	Description	I/O	Volt (V)		
				FM	AM	CD
1	PANEL OPEN	PANEL OPEN detection	I	5.2	5.2	5.2
2	PANEL CLOSE	PANEL CLOSE detection	I	0	0	0
3	NC	No Connection	-	-	-	-
4	BATT	BATT detection	I	5.1	5.1	5.1
5	ACC	ACC detection	I	5.1	5	5.1
6	SDA	Electronic VOL data	I/O	5	5	5
7	SCK	Electronic VOL clock	O	5	0	5
8	NC	No Connection	-	-	-	-
9	Vss	GND	-	0	0	0
10	ST	FM ST detection	I	5.1	5.1	5.1
11	PLL DI (MO)	PLL data output	O	0	0	0
12	PLL DO (MI)	PLL data input	I	5.2	5.2	5.2
13	PLL CLK	PLL clock output	O	5	5	5
14	PLL CE	PLL chip enable output	O	0	0	5
15	CD RST	CD deck reset output	O	5	5	0
16	SUB SI	SUB CPU Data	O	4.9	4.9	4.9
17	LCDCLK	LCD clock	O	4.8	4.8	4.8
18	SUB SO	SUB CPU Data	I	4.2	4.2	4.2
19	CD SO (MI)	CD Data	I	1.4	1.4	1.4
20	CD SCK	CD clock transmit	O	4.9	4.9	4.9
21	Vdd	Power supply	I	5	5	5
22	CD SI (MO)	CD Data	O	0	0	0
23	NC	No Connection	-	-	-	-
24	CDC CLK	CD Changer clock	I	0	0	0
25	CONDENSOR	Capacitor for power supply	-	3.2	3.2	3.2
26	CDC DATA	CD Changer data	i	0	0	0
27	CDC STB	Changer storobe signal input	i	0	0	0
28	CD IN	DISC In detection	I	4.9	4.9	0.4
29	DECK V CONT	DECK power supply control output	O	5	5	5
30	CD STB	Strobe signal for CD communication	O	3.3	3.3	3.3
31	NC	No Connection	-	-	-	-

Pin No.	Port	Description	I/O	Volt (V)		
				FM	AM	CD
32	Avdd	Power supply of D/A converter	I	5.1	5.1	5.1
33	AVREF	Reference voltage for D/A converter	I	5.1	5.1	5.1
34	AVGND	Reference GND for D/A converter	I	0	0	0
35	AVSS	GND for A/D and D/A converter	I	0	0	0
36	SD	FM/AM signal strength	I	0.3	0	0.3
37	INIT A	Initializ A	I	0	0	0
38	INIT B	Initializ B	I	0	0	0
39	A IN	SPE.ANA A.IN	I	0	0	0
40	Vss	GND	I	0	0	0
41	CD MUTE A0	Signal output according to command employment	O	0	0	5.1
42	CD RFOK (NC)	No Connection	-	-	-	-
43	CD LOCK (NC)	No Connection	-	-	-	-
44	CD LIMIT (NC)	No Connection	-	-	-	-
45	CD SW1 (NC)	No Connection	-	-	-	-
46	CD SW2 (NC)	No Connection	-	-	-	-
47	MOD0	Operating mode input 0	I	5.2	5.2	5.2
48	MOD1	Operating mode input 1	I	5.1	5.1	5.1
49	MOD2	Operating mode input 2	I	0	0	0
50	H STANDBY	External standby input	I	5.1	5.1	5.1
51	DC DC CNT (NC)	No connection	-	-	-	-
52	FP MOTOR1	Front open/close control 1	O	5	5	5
53	FP MOTOR2	Front open/close control 2	O	5	5	5

Pin No.	Port	Description	I/O	Volt (V)		
				FM	AM	CD
54	V CNT1	Panel driving voltage control 1	O	0	0	0
55	V CNT2 (NC)	No Connection	-	-	-	-
56	SA CLK	Spectrum analizer clock	O	5	4.9	4.9
57	EXT MUTE	TEL/NAVI MUTE input	I	5.4	5.4	5.4
58	AMP CONT	External AMP control	O	5	5	5
59	BZ-OUT	Buzzer output	O	0	0	0
60	ANT CONT	Motor antenna control	O	5	5	0
61	DIM1	Dimmer control output 1	O	0	0	0
62	DIM2	Dimmer control output 2	O	0	0	0
63	CDC REM OUT	Remote control data for CD Changer	O	5	5	5
64	CDC SENS	CDC 1/2 detection	I	5.1	5.1	5.1
65	CDC 1/2	CDC 1/2 change output	O	0	0	0
66	NC	No Connection	-	-	-	-
67	MAIN W.U REQ	Main wake-up request	I	4.9	4.9	4.9
68	NC	No Connection	-	-	-	-
69	NC	No Connection	-	-	-	-
70	NC	No Connection	-	-	-	-
71	NC	No Connection	-	-	-	-
72	MAIN CONT	MAIN power supply control	O	5	4.9	4.9
73	INV CONT	INV power supply control	O	5.1	5	5
74	AF MUTE	AF MUTE control	O	5.1	5.1	5.1
75	RESET	Reset input	I	5.1	5.1	5.1
76	NC	No Connection	-	-	-	-
77	NC	No Connection	-	-	-	-
78	NC	-	I	0	0	0
79	Vss	GND	I	0	0	0
80	X1	Crystal oscillator input	I	2.1	2.1	2.1
81	X2	Crystal oscillator output	O	2.5	2.5	2.5
82	Vdd	Power supply	I	5.1	5.1	5.1

Pin No.	Port	Description	I/O	Volt (V)		
				FM	AM	CD
83	P00	Pldaun port for writing	I	0	0	0
84	P01	Pull-up port for writing	I	5.1	5.1	5.1
85	OFFSET DET	PWR-IC offset detection	I	0	0	0
86	STBY	PWR-IC STBY control output	O	5.1	5.1	5.1
87	AMP MUTE	PWR-IC MUTE control output	O	0	0	0
88	ILL SENS	External dimmer control input	I	5.1	5.1	5.1
89	SUBM CNT (NC)	No Connection	-	-	-	-
90	EP DO (MI)	(Ground pull down)	-	-	-	-
91	EP D0 (M0) (NC)	No Connection	-	-	-	-
92	EP SK (NC)	No Connection	-	-	-	-
93	SUB W U REQ/ LCD CE	Sub Wake-up request	O	0	0	0
94	DISPM CNT	Power supply control for display	O	0	0	0
95	EJE ILL (NC)	No Connection	-	-	-	-
96	Rotary 1	Rotary Encoder 1	I	4.9	5	5
97	Rotary 2	Rotary Encoder 2	I	4.9	4.9	5
98	S LED	Security LED control output	O	0	0	0
99	PANEL IN	PANEL detect	I	5.3	5.3	5.3
100	EP CS (NC)	No Connection	-	-	-	-

10.2. Display Block

IC901 : YESAM246

Pin No.	Port	Description	I/O	(V)
1	(NC)	-	-	-
2-4	P2-4	LED drive control	O	0
5-59	S5-59	LCD segment data	O	2.5
60-73	(NC)	-	-	-
74-77	COM4-1	LCD common	O	2.5
78-83	KS1-6	Key strobe	O	5.0
84-88	KI1-5	Key data	I	0
89	VDD	+5V power supply	-	5.0
90	VLCD0	VLCD0 filter terminal	-	5.0
91	VLCD1	VLCD1 filter terminal	-	3.3
92	VLCD2	VLCD2 filter terminal	-	1.7
93	VSS	Ground	-	0
94	TEST	(Connecting to ground)	-	0
95	OSC	Oscillator terminal	-	5.0
96	RESET	(Connecting to +5V)	I	5.0
97	DO	Key data output	O	5.0
98	CE	LCD driver chip enable	I	0
99	CLK	LCD clock	I	5.0
100	DI	LCD data	I	5.0

10.3. CD Servo Block

IC401 : YESAM176

Pin No.	Port	Descriptions	I/O	(V)
1	CVSS1	GND	-	0
2	-	-	-	-
3	CVSS2	GND	-	0
4	DVSS1	I/O system (3.3V) power supply	-	3.3
5	A10	Address bus of FLASH ROM	O	0
6	-	-	-	-
7	A11	Address bus of FLASH ROM	O	3.3
8	A12		O	3.3
9	A13		O	3.3
10	A14		O	3.3
11	A15		O	3.3
12	/CVDD1	CORE CPU system (1.6V) power supply	-	1.6
13	-	-	-	-
14	DVSS1	GND	-	0
15	CVSS3	GND	-	0
16	/CVDD2	I/O system (3.3V) power supply	-	1.6
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	nPS	FLASH ROM selection signal	O	3.3
21	-	-	-	-
22	-	-	-	-
23	R/W	Lead/light signal to FLASH ROM	O	3.3
24	nMSTRB	Memory access signal	O	3.3
25	-	-	-	-
26	-	-	-	-
27	MUTE	Mute signal output (H: Mute on)	O	0
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	SUBO	SUBO input	I	0
32	-	Operation mode setting (external pull-up)	I	3.3
33	DVDD2	I/O system (3.3V) power supply	-	3.3
34	CVSS4	GND	-	0
35	(GND)	GND	I	0
36	-	-	-	-

36	-	-	-	-

Pin No.	Port	Descriptions	I/O	(V)
37	CVSS5	GND	-	0
38	-	-	-	-
39	-	-	-	-
40	DVSS2	GND	-	0
41	CLK C M	AUDIO bit clock input	I	1.6
42	SCK	Clock input	I	3.3
43	LRCK C M	AUDIO L/R identifying signal input	I	1.6
44	CDFS	Serial frame sink signal input	I	2.6
45	DATA M C	AUDIO serial data input	I	1.6
46	-	-	-	-
47	SI	Serial data input	I	0
48	CLK M C	AUDIO bit clock output	O	1.6
49	SCK	Clock input	I	3.3
50	CVSS6	GND	-	0
51	-	-	-	-
52	CVDD3	CORE CPU system (1.6V) power supply	-	1.6
53	LRCK M C	AUDIO L/R identifying signal output	O	1.6
54	CDFS	Serial frame sink signal input	I	2.4
55	-	-	-	-
56	DVDD3	I/O system (3.3V) power supply	-	3.3
57	DVSS3	GND	-	0
58	REST SW	Mechanics deck REST SW input	I	3.3
59	DATA M C	AUDIO serial data output	O	1.6
60	SO	Serial data output	O	1.2
61	-	-	-	-
62	-	-	-	-
63	-	-	-	-
64	-	-	-	-
65	-	-	-	-
66	BLKCK	Subcode block clock pulse input	I	0
67	-	-	-	-
68	DVDD4	CORE CPU system (1.6V) power supply	-	1.6

Pin No.	Port	Descriptions	I/O	(V)
69	SW1	Mechanics deck SW1 input	I	0
70	CVSS7	GND	-	0
71	MCLK	Clock output (to Servo DSP)	O	3.3
72	DVSS4	GND	-	0
73	MLD	Command load signal output (to Servo DSP)	I	3.3
74	MDATA	Command data output (to Servo DSP)	O	3.3
75	DVDD4	I/O system (3.3V) power supply	-	3.3
76	DVSS5	GND	-	0
77	-	Clock mode setting (L fixation)	I	0
78	-	Clock mode setting (H fixation)	I	3.3
79	-	Clock mode setting (L fixation)	I	-
80	-	-	-	-
81	SW2	Mechanics deck SW2 input	I	0
82	-	-	-	-
83	-	-	-	-
84	-	-	-	-
85	-	-	-	-
86	-	-	-	-
87	-	-	-	-
88	-	-	-	-
89	-	-	-	-
90	CVSS8	GND	-	3.3
91	CVDD5	CORE CPU system (1.6V) power supply	-	0
92	(GND)	GND	I	1.6
93	DVSS6	GND	-	0
94	-	-	-	-
95	CLKENA	Oscillation output Cainabl signal	O	3.3
96	×1	Crystal Connection	O	0
97	×2	Crystal Connection	I	0
98	(VDD)	Reset signal input	I	1
99	D0	Data base of FLASH ROM	I/O	3.4
100	D1		I/O	0
101	D2		I/O	0
102	D3		I/O	0
103	D4		I/O	0
104	D5		I/O	0

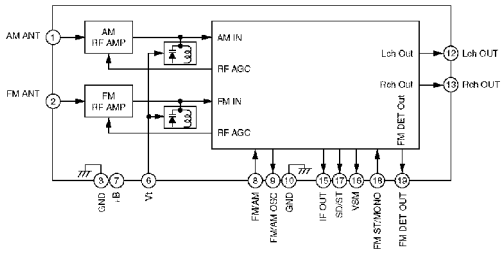
Pin No.	Port	Descriptions	I/O	(V)
105	A16	Address bus of FLASH ROM	O	0
106	DVSS7	GND	-	0
107	A17	Address bus of FLASH ROM	O	3.3
108	A18		O	0
109	A19		O	0
110	A20		O	0
111	CVSS9	GND	-	0
112	DVDD5	I/O system (3.3V) power supply	-	3.3
113	D6	Data bus of FLASH ROM	I/O	0
114	D7		I/O	0
115	D8		I/O	0
116	D9		I/O	0
117	D10		I/O	0
118	D11	Data bus of FLASH ROM	I/O	0
119	D12		I/O	0
120	STAT	Status signal input	I	0.4
121	D13	Data path of FLASH ROM	I/O	0
122	D14		I/O	0
123	D15		I/O	0
124	SQCK	SOCK clock output (to Servo DPS)	O	3.2
125	CVDD6	CORE CPU system (1.6V) power supply	-	1.6
126	CVSS10	GND	-	0
127	-	-	-	-
128	DVSS8	I/O system (3.3V) power supply	-	0
129	-	-	-	-
130	DVDD6	I/O system (3.3V) power supply	-	3.3
131	A0	Address bus of FLASH ROM	O	0
132	A1		O	0
133	A2		O	3.3
134	A3		O	3.3
135	/RST	Reset signal output (to Servo DSP)	O	3.3
136	A4	Address bus of FLASH ROM	O	3.3
137	A5		O	0
138	A6		O	3.3
139	A7		O	3.3
140	A8		O	0
141	A9		O	3.3

Pin No.	Port	Descriptions	I/O	(V)
142	CVDD7	CORE CPU system (1.6V) power supply	-	1.6
143	-	-	-	-
144	DVSS9	GND	-	0

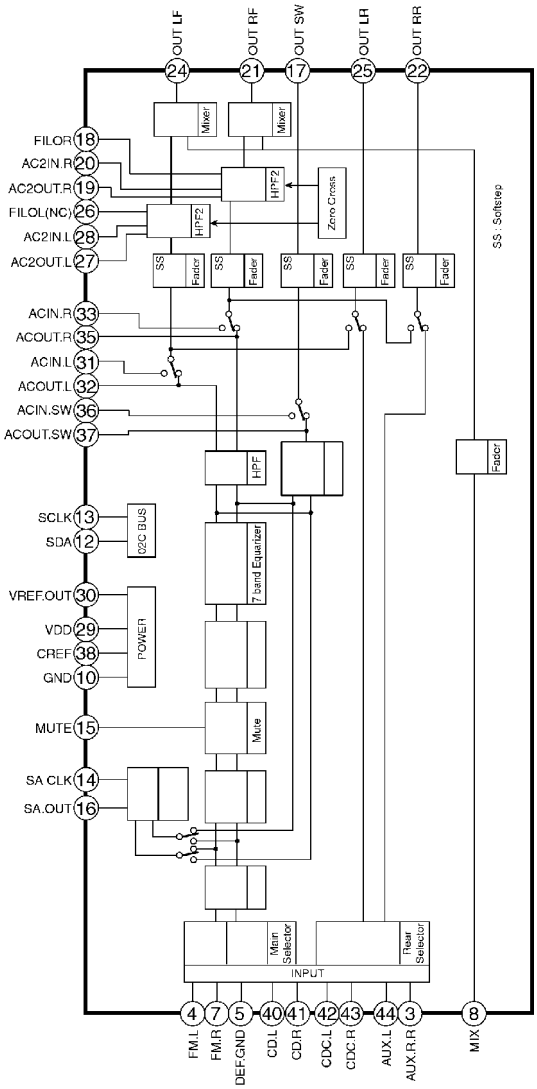
11. PACKAGE AND IC BLOCK DIAGRAM

11.1. Main Block

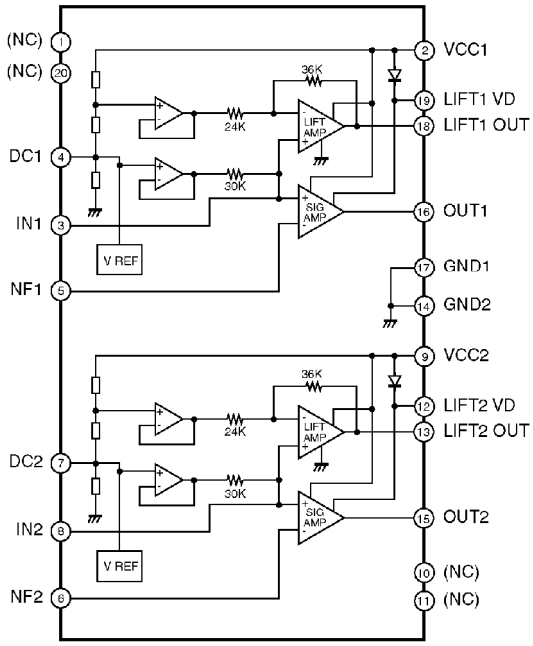
PA51 : YESAP263



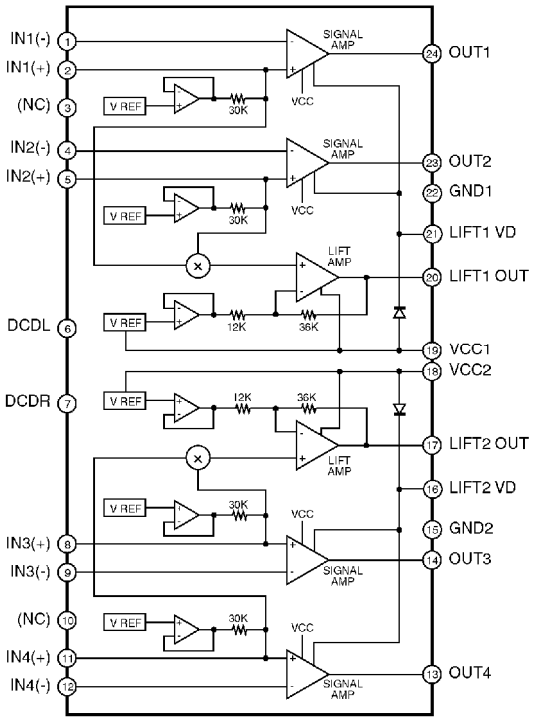
IC201 : C1BB00000796



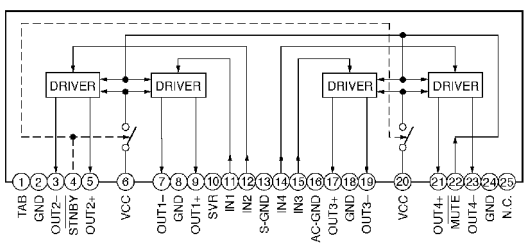
IC241 : C1BB00000650



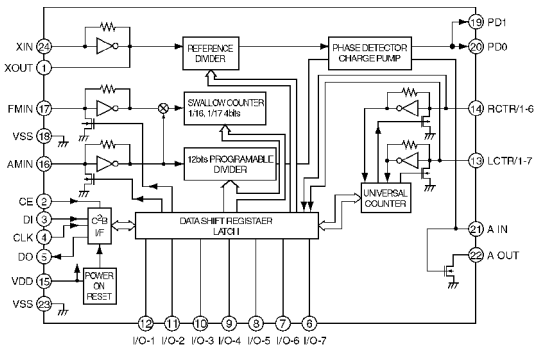
IC251 : C1BB00000649



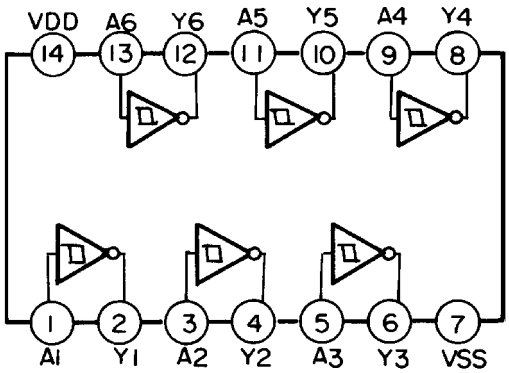
IC271 : C1EA00000021



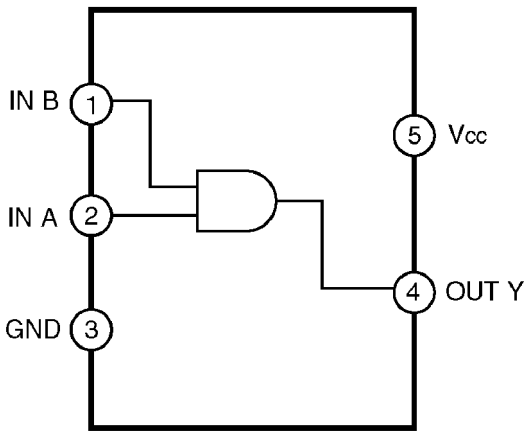
IC401 : YESAM194



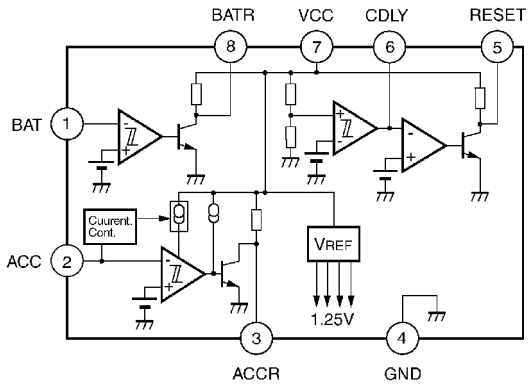
IC670 : YESAM183



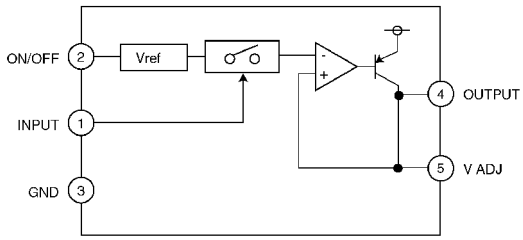
IC650 : YESAM228



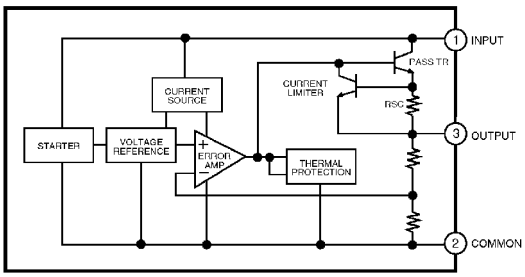
IC702 : AN8065SE1



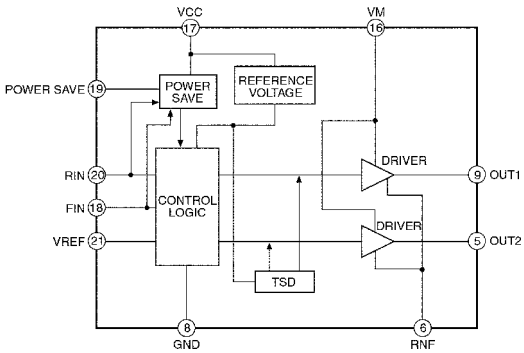
IC730, 750 : BA00AST



IC752 : YESAM227

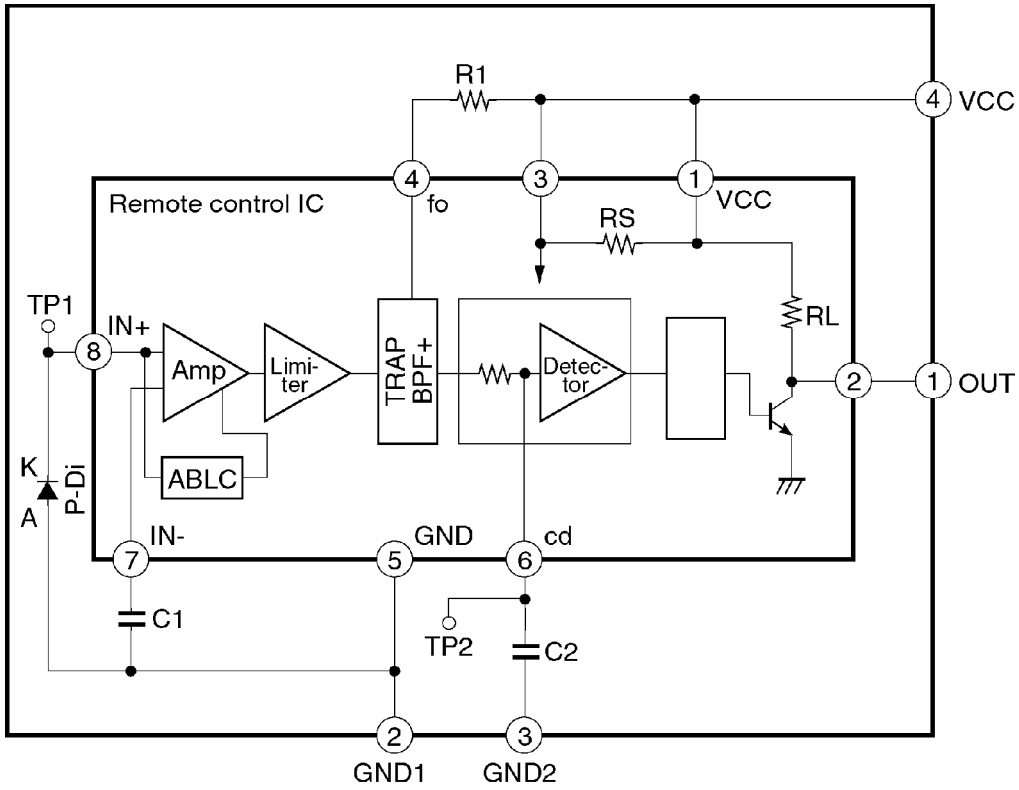


IC760 : C0GBG0000032



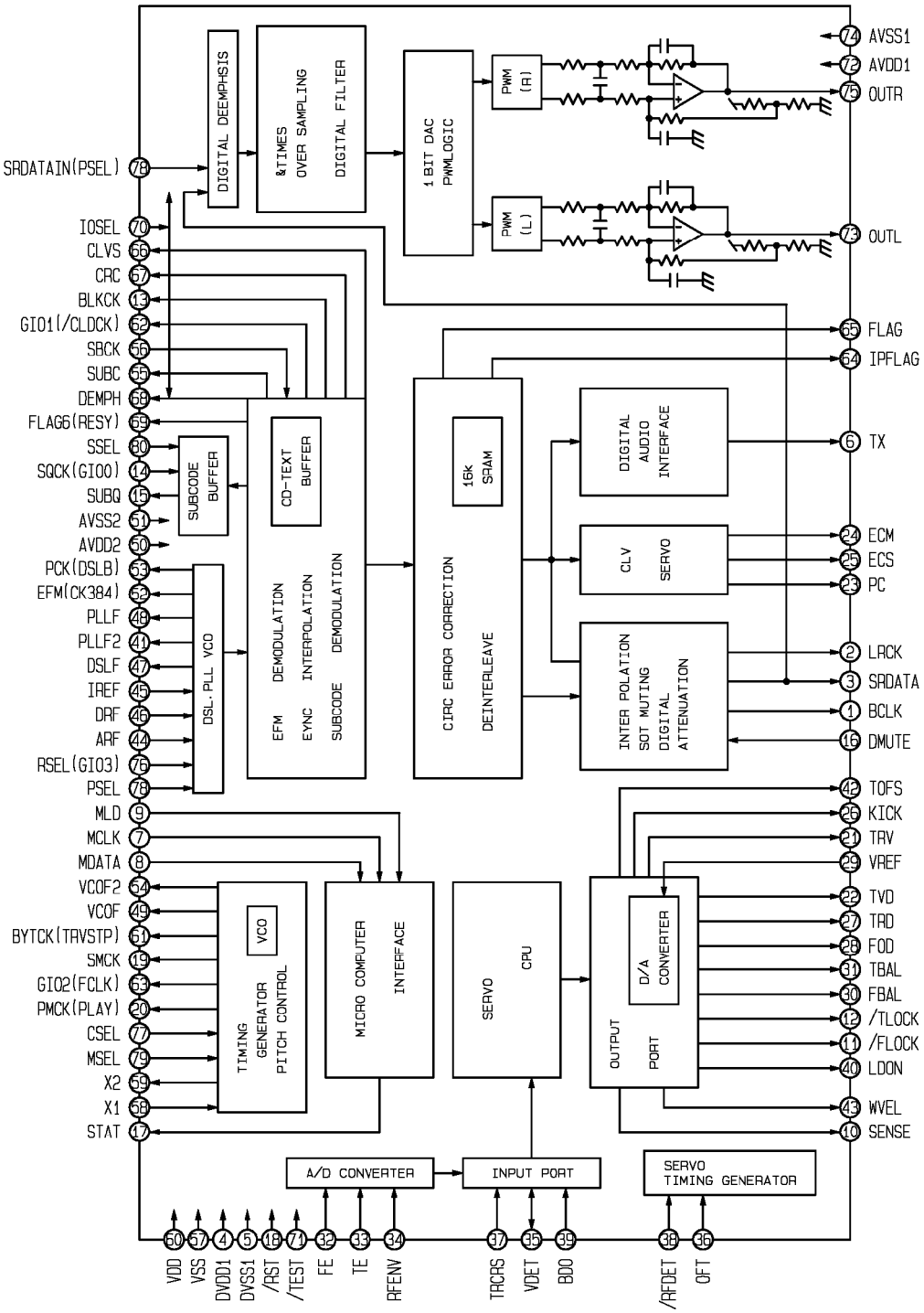
11.2. Display Block

IC905 : B3MBZ0000006

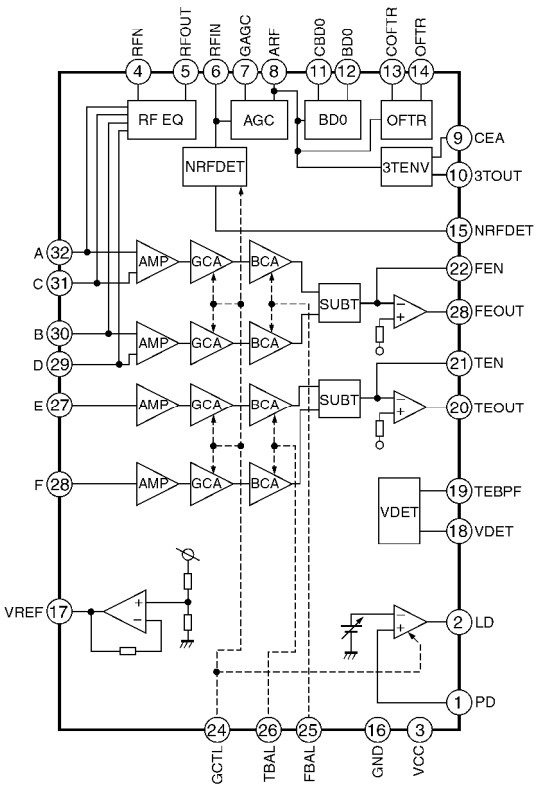


11.3. CD Servo Block

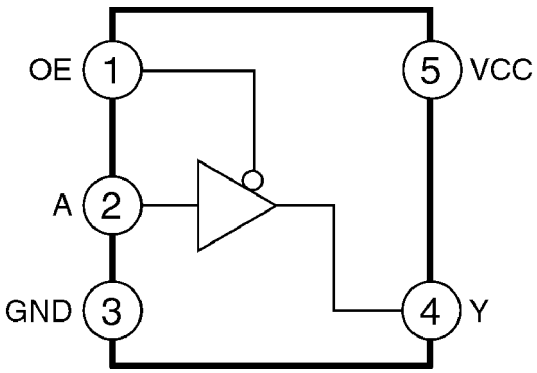
IC201 : MN6627482WB



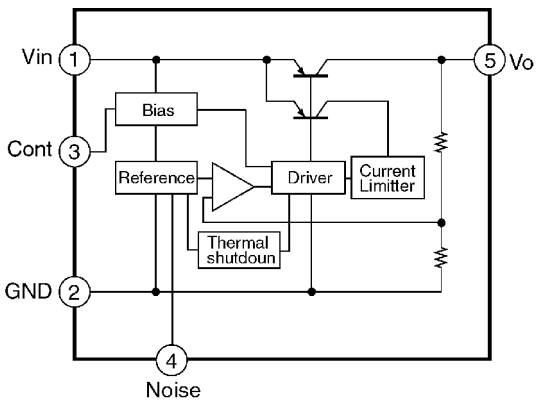
IC202 : YESAM163



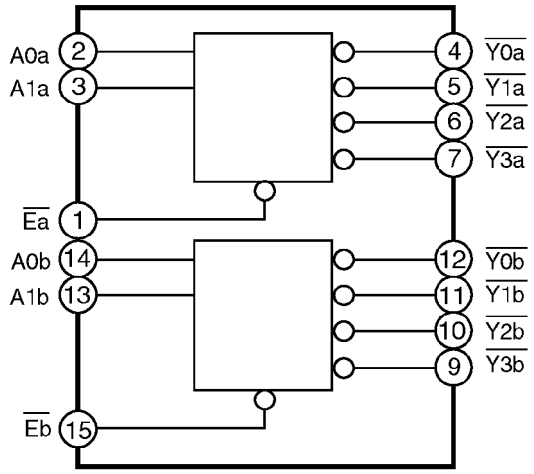
IC409 : YESAM167



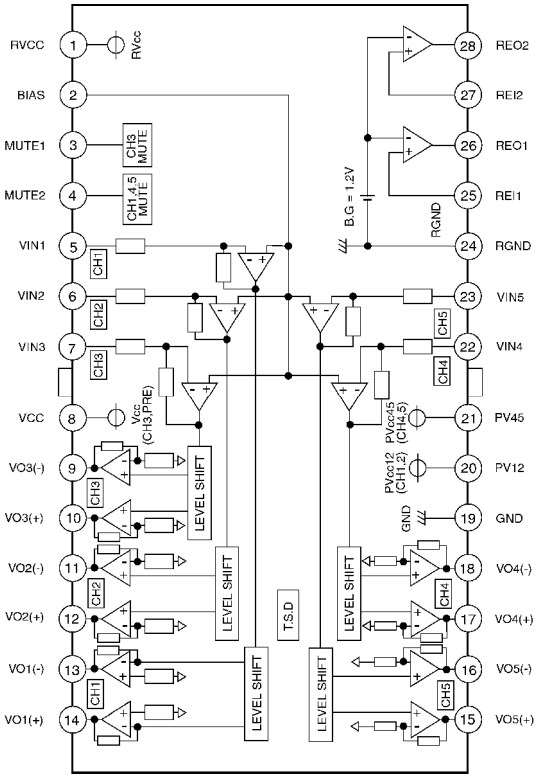
IC411 : YESAM178



IC406 : YESAM171



IC203 : YESAM166



12. REPLACEMENT PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general**

location of the parts shown in the exploded drawing, as in a road map.

4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

    - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
Main Block [7205-02-11A]			
IC's and TRANSISTORs			
IC201	C1BB00000796	IC	
IC241	C1BB00000650	IC	
IC251	C1BB00000649	IC	
IC271	C1EA00000021	IC	
IC401	YESAM194	IC	
IC601	YESAM259	IC	
IC650	YESAM228	IC	
IC670	YESAM183	IC	
IC702	AN8065SE1	IC	
IC730	BA00AST	IC	
IC750	BA00AST	IC	
IC752	YESAM227	IC	
IC760	C0GBG0000032	IC	
IC761	YESAM235	IC	
PA51	YESAP263	Tuner Pack	
Q55	YEANFP1F3PT1	Transistor	
Q220	B1GBCFNN0004	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q263	B1GDCFJJ0002	Transistor	
Q266	B1GBHBEA0004	Transistor	
Q267	B1GDCFJJ0002	Transistor	
Q320	B1GBCFNN0004	Transistor	
Q346	B1GBHBEA0004	Transistor	
Q347	B1GDCFJJ0002	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q363	B1GDCFJJ0002	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q367	B1GDCFJJ0002	Transistor	
Q372	YEANC114YKX	Transistor	
Q376	B1GBCFNN0004	Transistor	
Q411	YEAN2SK536TB	FET	
Q630	B1GBCFNN0004	Transistor	
Q633	B1GDCFJJ0002	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q650	YEANC114YKX	Transistor	
Q680	B1GDCFLL0010	Transistor	
Q701	YESAN060	Transistor	
Q702	YESAN060	Transistor	
Q703	B1BCCF000017	Transistor	
Q704	B1GDJCEJ0001	Transistor	
Q705	YEANC4480AN	Transistor	
Q706	2SD2139TA	Transistor	
Q730	B1GBCFNN0004	Transistor	
Q731	B1GBCFNN0004	Transistor	
Q760	B1GBCFNN0004	Transistor	
Q790	YEANHQ1F3PT1	Transistor	
Q791	YEANHQ1F3PT1	Transistor	
Q792	YEANC114YKX	Transistor	
Q793	YEANC114YKX	Transistor	
DIODEs			
D201	YEADSR1544TL	Diode	
D202	YEADSR1544TL	Diode	
D203	YEADSR1544TL	Diode	
D204	YEADSR1544TL	Diode	
D301	YEADSR1544TL	Diode	
D302	YEADSR1544TL	Diode	
D303	YEADSR1544TL	Diode	
D304	YEADSR1544TL	Diode	
D630	B3AAB0000143	LED	
D631	YESAD115	Zener Diode	
D632	YESAD115	Zener Diode	
D633	YESAD115	Zener Diode	
D634	YESAD115	Zener Diode	
D635	YESAD115	Zener Diode	
D636	YESAD115	Zener Diode	
D637	MA152WATX	Diode	
D670	MA721TX	Diode	
D671	MA3X152A0L	Diode	
D701	YESAD132	Zener Diode	
D702	MA721TX	Diode	
D703	YEADRD56M3T1	Zener Diode	
D704	MA721TX	Diode	
D705	B0BC9R600001	Zener Diode	
D706	YESAD130	Zener Diode	
D707	YEADRB051L40	Diode	
D708	MA3X152K0L	Diode	
D709	MA721TX	Diode	
D710	MA721TX	Diode	
D720	MA4091MTA	Zener Diode	
D721	MA721TX	Diode	
D760	YEADRD51M2T1	Zener Diode	
D761	YESAD129	Zener Diode	
D770	MA721TX	Diode	
D771	MA721TX	Diode	
D772	MA4051MTA	Zener Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
CAPACITORs			
C52	YECUS1H470JC	Ceramic, 47pF 50WV	
C54	YESCC313	Electrolytic, 220 μF 10WV	
C55	YESCC234	Ceramic, 0.01 μF 50WV	
C56	YESCC342	Electrolytic, 1 μF 25WV	
C61	YESCC231	Ceramic, 0.022 μF 25WV	
C62	YESCC231	Ceramic, 0.022 μF 25WV	
C65	YESCC233	Ceramic, 0.001 μF 50WV	
C202	YESRG183	Chip, 36kΩ 1/8W	
C206	YESCC336	Electrolytic, 2.2 μF 50WV	
C213	YESCC191	Ceramic, 2.2 μF	
C215	YESCC191	Ceramic, 2.2 μF	
C217	YESCC230	Ceramic, 0.33 μF 16WV	
C220	YESCC336	Electrolytic, 2.2 μF 50WV	
C244	YESCC330	Ceramic, 1500pF 630WV	
C245	YESCC334	Electrolytic, 100 μF 16WV	
C246	YECUS1H104KX	Ceramic, 0.1 μF 50WV	
C247	YESCC337	Electrolytic, 4.7 μF 50WV	
C248	YESCC335	Electrolytic, 47 μF 16WV	
C249	YECUS1H104KX	Ceramic, 0.1 μF 50WV	
C251	YESCC337	Electrolytic, 4.7 μF 50WV	
C254	F1J1H152A675	Ceramic, 0.0015 μF 50WV	
C255	YESCC334	Electrolytic, 100 μF 16WV	
C257	YESCC337	Electrolytic, 4.7 μF 50WV	
C259	YECUS1H104KX	Ceramic, 0.1 μF 50WV	
C261	YESCC337	Electrolytic, 4.7 μF 50WV	
C263	YESCC338	Electrolytic, 0.47 μF 50WV	
C265	YESCC337	Electrolytic, 4.7 μF 50WV	
C267	YESCC338	Electrolytic, 0.47 μF 50WV	
C271	YESCC235	Ceramic, 0.0047 μF 50WV	
C272	YESCC235	Ceramic, 0.0047 μF 50WV	
C274	YESCC335	Electrolytic, 47 μF 16WV	
C275	YESCC210	Ceramic, 1 μF 16WV	
C278	YECUS1E104ZF	Ceramic, 0.1 μF 50WV	
C279	YESCC341	Electrolytic, 4700 μF 16WV	
C302	YESRG183	Chip, 36kΩ 1/8W	
C306	YESCC336	Electrolytic, 2.2 μF 50WV	
C313	YESCC191	Ceramic, 2.2 μF	
C315	YESCC191	Ceramic, 2.2 μF	

Ref. No.	Part No.	Part Name & Description	Remarks
C317	YESCC230	Ceramic, 0.33 μF 16WV	
C318	YESCC191	Ceramic, 2.2 μF	
C320	YESCC336	Electrolytic, 2.2 μF 50WV	
C321	YESCC191	Ceramic, 2.2 μF	
C323	YESCC333	Electrolytic, 10 μF 16WV	
C324	YESCC191	Ceramic, 2.2 μF	
C325	YESCC336	Electrolytic, 2.2 μF 50WV	
C326	YESCC191	Ceramic, 2.2 μF	
C327	YESCC313	Electrolytic, 220 μF 10WV	
C328	YESCC234	Ceramic, 0.01 μF 50WV	
C345	YESCC337	Electrolytic, 4.7 μF 50WV	
C349	YESCC313	Electrolytic, 220 μF 10WV	
C351	YESCC337	Electrolytic, 4.7 μF 50WV	
C354	F1J1H152A675	Ceramic, 0.0015 μF 50WV	
C355	YESCC334	Electrolytic, 100 μF 16WV	
C357	YESCC337	Electrolytic, 4.7 μF 50WV	
C358	YESCC335	Electrolytic, 47 μF 16WV	
C359	YESCC313	Electrolytic, 220 μF 10WV	
C361	YESCC337	Electrolytic, 4.7 μF 50WV	
C363	YESCC338	Electrolytic, 0.47 μF 50WV	
C365	YESCC337	Electrolytic, 4.7 μF 50WV	
C367	YESCC338	Electrolytic, 0.47 μF 50WV	
C371	YESCC235	Ceramic, 0.0047 μF 50WV	
C372	YESCC235	Ceramic, 0.0047 μF 50WV	
C374	YESCC336	Electrolytic, 2.2 μF 50WV	
C375	YESCC333	Electrolytic, 10 μF 16WV	
C378	YECUS1E104ZF	Ceramic, 0.1 μF 50WV	
C401	YECUS1H150JC	Ceramic, 15pF 50WV	
C402	YECUS1H150JC	Ceramic, 15pF 50WV	
C403	YESCC339	Electrolytic, 100 μF 6.3WV	
C404	YESCC234	Ceramic, 0.01 μF 50WV	
C405	F1H1H101A231	Ceramic, 100pF 50WV	
C411	YESCC234	Ceramic, 0.01 μF 50WV	
C412	YESCC231	Ceramic, 0.022 μF 25WV	
C413	ECQV1H224JL2	Plastic Film, 0.22 μF 50WV	
C414	YESCC313	Electrolytic, 220 μF 10WV	
C601	YECUS1H104KX	Ceramic, 0.1 μF 50WV	
C602	YESCC234	Ceramic, 0.01 μF 50WV	
C603	YESCC315	Electrolytic, 330 μF 6.3WV	
C604	EECS0HD473H	Electrolytic, 0.047 μF 5.5WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C605	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C606	YESCC324	Ceramic, 18pF 50WV	
C607	YESCC324	Ceramic, 18pF 50WV	
C608	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C609	YESCC269	Ceramic, 10 μ F 6.3WV	
C610	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C630	YESCC315	Electrolytic, 330 μ F 6.3WV	
C632	YECUS1E104ZF	Ceramic, 0.1 μ F 50WV	
C633	YESCC335	Electrolytic, 47 μ F 16WV	
C650	YESCC234	Ceramic, 0.01 μ F 50WV	
C651	YESCC322	Ceramic, 1pF 50WV	
C652	YESCC322	Ceramic, 1pF 50WV	
C670	YESCC333	Electrolytic, 10 μ F 16WV	
C671	YESCC234	Ceramic, 0.01 μ F 50WV	
C680	YESCC336	Electrolytic, 2.2 μ F 50WV	
C701	YESCC326	Ceramic, 0.15 μ F 50WV	
C702	YESCC321	Electrolytic, 470 μ F 16WV	
C703	YESCC337	Electrolytic, 4.7 μ F 50WV	
C704	YESCC340	Electrolytic, 47 μ F 6.3WV	
C705	YESCC328	Ceramic, 0.01 μ F 25WV	
C706	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C707	F2A1C1020069	Electrolytic, 1000 μ F 16WV	
C708	YESCC313	Electrolytic, 220 μ F 10WV	
C709	YESCC313	Electrolytic, 220 μ F 10WV	
C710	YECUS1H103ZF	Ceramic, 0.01 μ F 50WV	
C711	YECUS1H103ZF	Ceramic, 0.01 μ F 50WV	
C712	YESCC332	Electrolytic, 100 μ F 10WV	
C713	YECUS1C474KX	Ceramic, 0.47 μ F 16WV	
C721	YESCC234	Ceramic, 0.01 μ F 50WV	
C722	YESCC307	Electrolytic, 120 μ F 10WV	
C730	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C731	YECUX1C334KX	Ceramic, 0.33 μ F 16WV	
C732	YESCC320	Electrolytic, 56 μ F 10WV	
C750	YESCC320	Electrolytic, 56 μ F 10WV	
C751	YESCC200	Ceramic, 0.22 μ F 25WV	
C752	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C753	YECUS1H104KX	Ceramic, 0.1 μ F 50WV	
C754	YESCC320	Electrolytic, 56 μ F 10WV	
C760	YESCC234	Ceramic, 0.01 μ F 50WV	
C761	YECUS1E104ZF	Ceramic, 0.1 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C762	YESCC335	Electrolytic, 47 μF 16WV	
C763	YECUS1E104ZF	Ceramic, 0.1 μF 50WV	
C764	YESCC329	Ceramic, 0.22 μF 25WV	
C765	YESCC329	Ceramic, 0.22 μF 25WV	
C766	YESCC329	Ceramic, 0.22 μF 25WV	
C772	YESCC340	Electrolytic, 47 μF 6.3WV	
RESISTORs			
J401-406	YESRG093	Chip, 0 Ω 1/8W	
J411-414	YESRG093	Chip, 0 Ω 1/8W	
J501-510	YESRG132	Chip, 0 Ω 1/4W	
J513-515	YESRG132	Chip, 0 Ω 1/4W	
J517	YESRG132	Chip, 0 Ω 1/4W	
J518-526	ERJ8GX0R00V	Chip, 0 Ω 1/4W	
J527-529	YESRG132	Chip, 0 Ω 1/4W	
J531-553	YESRG132	Chip, 0 Ω 1/4W	
L290	YESRG093	Chip, 0 Ω 1/8W	
L291	YESRG093	Chip, 0 Ω 1/8W	
L292	YESRG093	Chip, 0 Ω 1/8W	
L295	YESRG121	Chip, 4.7 Ω 1/8W	
L296	YESRG121	Chip, 4.7 Ω 1/8W	
L298	YESRG093	Chip, 0 Ω 1/8W	
L299	YESRG093	Chip, 0 Ω 1/8W	
L393	YESRG093	Chip, 0 Ω 1/8W	
L394	YESRG093	Chip, 0 Ω 1/8W	
L395	YESRG121	Chip, 4.7 Ω 1/8W	
L396	YESRG121	Chip, 4.7 Ω 1/8W	
L398	YESRG093	Chip, 0 Ω 1/8W	
L399	YESRG093	Chip, 0 Ω 1/8W	
R50	YESRG093	Chip, 0 Ω 1/8W	
R51	YESRG095	Chip, 1k Ω 1/8W	
R54	YESRG095	Chip, 1k Ω 1/8W	
R55	YESRG093	Chip, 0 Ω 1/8W	
R59	YESRG093	Chip, 0 Ω 1/8W	
R65	YESRG117	Chip, 39k Ω 1/8W	
R201	YESRG093	Chip, 0 Ω 1/8W	
R202	YESRG125	Chip, 5.6k Ω 1/8W	
R203	YESRG096	Chip, 10k Ω 1/8W	
R207	YESRG119	Chip, 4.7k Ω 1/8W	
R211	YESRG099	Chip, 12k Ω 1/8W	
R212	YESRG105	Chip, 18k Ω 1/8W	
R213	YESRG188	Chip, 75 Ω 1/8W	
R214	YESRG178	Chip, 120k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R215	YESRG117	Chip, 39k Ω 1/8W	
R216	YESRG113	Chip, 27k Ω 1/8W	
R217	YESRG121	Chip, 4.7 Ω 1/8W	
R220	YESRG167	Chip, 39k Ω 1/10W	
R221	YESRG166	Chip, 27k Ω 1/10W	
R244	YESRG167	Chip, 39k Ω 1/10W	
R245	YESRG166	Chip, 27k Ω 1/10W	
R248	YESRG186	Chip, 56 Ω 1/8W	
R252	YESRG160	Chip, 10k Ω 1/10W	
R253	YESRG124	Chip, 560 Ω 1/8W	
R254	YESRG186	Chip, 56 Ω 1/8W	
R255	YESRG160	Chip, 10k Ω 1/10W	
R261	YESRG149	Chip, 560 Ω 1/4W	
R262	YESRG191	Chip, 22k Ω 1/4W	
R263	YESRG093	Chip, 0 Ω 1/8W	
R265	YESRG095	Chip, 1k Ω 1/8W	
R266	YESRG095	Chip, 1k Ω 1/8W	
R267	YESRG093	Chip, 0 Ω 1/8W	
R275	YESRG093	Chip, 0 Ω 1/8W	
R301	YESRG093	Chip, 0 Ω 1/8W	
R302	YESRG125	Chip, 5.6k Ω 1/8W	
R303	YESRG096	Chip, 10k Ω 1/8W	
R307	YESRG119	Chip, 4.7k Ω 1/8W	
R311	YESRG099	Chip, 12k Ω 1/8W	
R312	YESRG105	Chip, 18k Ω 1/8W	
R313	YESRG188	Chip, 75 Ω 1/8W	
R314	YESRG178	Chip, 120k Ω 1/8W	
R315	YESRG158	Chip, 100 Ω 1/10W	
R316	YESRG095	Chip, 1k Ω 1/8W	
R317	YESRG096	Chip, 10k Ω 1/8W	
R320	YESRG095	Chip, 1k Ω 1/8W	
R321	YESRG095	Chip, 1k Ω 1/8W	
R322	YESRG186	Chip, 56 Ω 1/8W	
R323	YESRG160	Chip, 10k Ω 1/10W	
R324	YESRG121	Chip, 4.7 Ω 1/8W	
R325	YESRG117	Chip, 39k Ω 1/8W	
R326	YESRG166	Chip, 27k Ω 1/10W	
R345	YESRG117	Chip, 39k Ω 1/8W	
R346	YESRG166	Chip, 27k Ω 1/10W	
R348	YESRG186	Chip, 56 Ω 1/8W	
R352	YESRG160	Chip, 10k Ω 1/10W	
R353	YESRG124	Chip, 560 Ω 1/8W	
R354	YESRG186	Chip, 56 Ω 1/8W	
R355	YESRG160	Chip, 10k Ω 1/10W	
R361	YESRG124	Chip, 560 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R362	YESRG105	Chip, 18k Ω 1/8W	
R363	YESRG125	Chip, 5.6k Ω 1/8W	
R365	YESRG160	Chip, 10k Ω 1/10W	
R366	YESRG162	Chip, 1.5k Ω 1/10W	
R367	YESRG169	Chip, 4.7k Ω 1/10W	
R373	YESRG170	Chip, 47k Ω 1/10W	
R375	YESRG159	Chip, 1k Ω 1/10W	
R376	YESRG170	Chip, 47k Ω 1/10W	
R401	YESRG159	Chip, 1k Ω 1/10W	
R402	YESRG157	Chip, 0 Ω 1/10W	
R403	YESRG157	Chip, 0 Ω 1/10W	
R404-407	YESRG104	Chip, 1.8k Ω 1/8W	
R408	YESRG149	Chip, 560 Ω 1/4W	
R409	YESRG154	Chip, 10 Ω 1/8W	
R410	YESRG127	Chip, 5.6 Ω 1/8W	
R411	YESRG093	Chip, 0 Ω 1/8W	
R413	YESRG094	Chip, 100 Ω 1/8W	
R414	YESRG114	Chip, 330 Ω 1/8W	
R417	YESRG161	Chip, 100k Ω 1/10W	
R601	YESRG184	Chip, 4.3k Ω 1/8W	
R602	YESRG168	Chip, 4.3k Ω 1/10W	
R603	YESRG093	Chip, 0 Ω 1/8W	
R604	YESRG157	Chip, 0 Ω 1/10W	
R605	YESRG095	Chip, 1k Ω 1/8W	
R607	YESRG115	Chip, 33k Ω 1/8W	
R608	YESRG131	Chip, 8.2k Ω 1/8W	
R609	YESRG170	Chip, 47k Ω 1/10W	
R611	YESRG120	Chip, 47k Ω 1/8W	
R613	YESRG160	Chip, 10k Ω 1/10W	
R614	YESRG160	Chip, 10k Ω 1/10W	
R615	YESRG096	Chip, 10k Ω 1/8W	
R619	YESRG163	Chip, 180k Ω 1/10W	
R620	YESRG096	Chip, 10k Ω 1/8W	
R621	YESRG162	Chip, 1.5k Ω 1/10W	
R622	YESRG120	Chip, 47k Ω 1/8W	
R623	YESRG097	Chip, 100k Ω 1/8W	
R624	YESRG161	Chip, 100k Ω 1/10W	
R625	YESRG170	Chip, 47k Ω 1/10W	
R626	YESRG095	Chip, 1k Ω 1/8W	
R627	YESRG160	Chip, 10k Ω 1/10W	
R628	YESRG160	Chip, 10k Ω 1/10W	
R629	YESRG136	Chip, 100k Ω 1/4W	
R630	YESRG095	Chip, 1k Ω 1/8W	
R631	YESRG130	Chip, 820 Ω 1/8W	
R633	YESRG095	Chip, 1k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R634	YESRG124	Chip, 560 Ω 1/8W	
R635	YESRG093	Chip, 0 Ω 1/8W	
R636	YESRG134	Chip, 1k Ω 1/4W	
R637	YESRG095	Chip, 1k Ω 1/8W	
R638	YESRG159	Chip, 1k Ω 1/10W	
R639	YESRG159	Chip, 1k Ω 1/10W	
R640	YESRG124	Chip, 560 Ω 1/8W	
R643	YESRG163	Chip, 180k Ω 1/10W	
R644	YESRG093	Chip, 0 Ω 1/8W	
R645	YESRG157	Chip, 0 Ω 1/10W	
R646	YESRG097	Chip, 100k Ω 1/8W	
R653	YESRG171	Chip, 5.1k Ω 1/10W	
R654	YESRG123	Chip, 5.1k Ω 1/8W	
R655	YESRG096	Chip, 10k Ω 1/8W	
R656	YESRG112	Chip, 2.7k Ω 1/8W	
R657	YESRG112	Chip, 2.7k Ω 1/8W	
R659	YESRG112	Chip, 2.7k Ω 1/8W	
R660	YESRG112	Chip, 2.7k Ω 1/8W	
R662	YESRG147	Chip, 4.7k Ω 1/4W	
R663	YESRG123	Chip, 5.1k Ω 1/8W	
R664	YESRG123	Chip, 5.1k Ω 1/8W	
R670-673	YESRG097	Chip, 100k Ω 1/8W	
R680	YESRG111	Chip, 270 Ω 1/8W	
R681	YESRG125	Chip, 5.6k Ω 1/8W	
R682	YESRG170	Chip, 47k Ω 1/10W	
R685-688	YESRG159	Chip, 1k Ω 1/10W	
R701	YESRG096	Chip, 10k Ω 1/8W	
R702	YESRG181	Chip, 270k Ω 1/8W	
R703	YESRG185	Chip, 43k Ω 1/8W	
R704	YESRG192	Chip, 4.7 Ω 1/4W	
R705	YESRG133	Chip, 10 Ω 1/4W	
R706	YESRG160	Chip, 10k Ω 1/10W	
R708	YESRG170	Chip, 47k Ω 1/10W	
R709	YESRG156	Carbon, 820 Ω 1/2W	
R710	YESRG156	Carbon, 820 Ω 1/2W	
R711	YESRG140	Chip, 1 Ω 1/4W	
R712	YESRG140	Chip, 1 Ω 1/4W	
R713	YESRG130	Chip, 820 Ω 1/8W	
R714	YESRG130	Chip, 820 Ω 1/8W	
R715	YESRG119	Chip, 4.7k Ω 1/8W	
R716	YESRG110	Chip, 220k Ω 1/8W	
R717	YESRG185	Chip, 43k Ω 1/8W	
R718	YESRG133	Chip, 10 Ω 1/4W	
R719	YESRG088	Carbon, 3.3k Ω 1/2W	
R720	YESRG189	Chip, 100 Ω 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R721	YESRG189	Chip, 100 Ω 1/4W	
R730	YESRG175	Chip, 68k Ω 1/8W	
R731	YESRG174	Chip, 220k Ω 1/8W	
R732	YESRG058	Chip, 18k Ω 1/8W	
R733	YESRG172	Chip, 130k Ω 1/8W	
R734	YESRG173	Chip, 2.2k Ω 1/8W	
R750	YESRG090	Chip, 10k Ω 1/8W	
R751	YESRG176	Chip, 8.2k Ω 1/8W	
R752	YESRG173	Chip, 2.2k Ω 1/8W	
R760	YESRG179	Chip, 1.6k Ω 1/8W	
R761	YESRG155	Carbon, 3.9 Ω 1/2W	
R772	YESRG190	Chip, 220 Ω 1/4W	
R773	YESRG190	Chip, 220 Ω 1/4W	
R790	YESRG109	Chip, 22k Ω 1/8W	
R791	YESRG109	Chip, 22k Ω 1/8W	
CONNECTORs			
CN251	YESAJ07008	RCA Wire (CD.C-IN)	
CN253	YESAJ07009	RCA Wire (S.W-OUT)	
CN302	K2HA104B0010	Jack, RCA	
CN351	YESAJ07010	RCA Wire (AUX-IN)	
CN601	K1MN16B00130	Connector, 16P	
CN651	YESAE344	Connector, 18P	
CN670	YESAJ07018	Wire Connector, 7P	
CN680	YESAE343	DIN Jack	
CN701	YESAE351	Connector, 16P	
CN760	YEAE5339802	Connector, 2P	
SWITCHes			
SW601	K0L1BA000022	Switch	
SW602	K0L1BA000023	Switch	
COILs			
L50	G1C150K00011	Coil	
L52	G1CR56K00009	Coil	
L401	YESLQ030	Coil	
L601	YESLQ029	Coil	
L602	YESLQ030	Coil	
L603	YESLQ029	Coil	
L630	ELEAR330KA	Coil	
L701	YELTBLNA62B1	Coil	
L702	G0A161J00001	Coil	
CRYSTALs			
XL401	YESXL021	Crystal	
XL601	H0J419400009	Crystal	

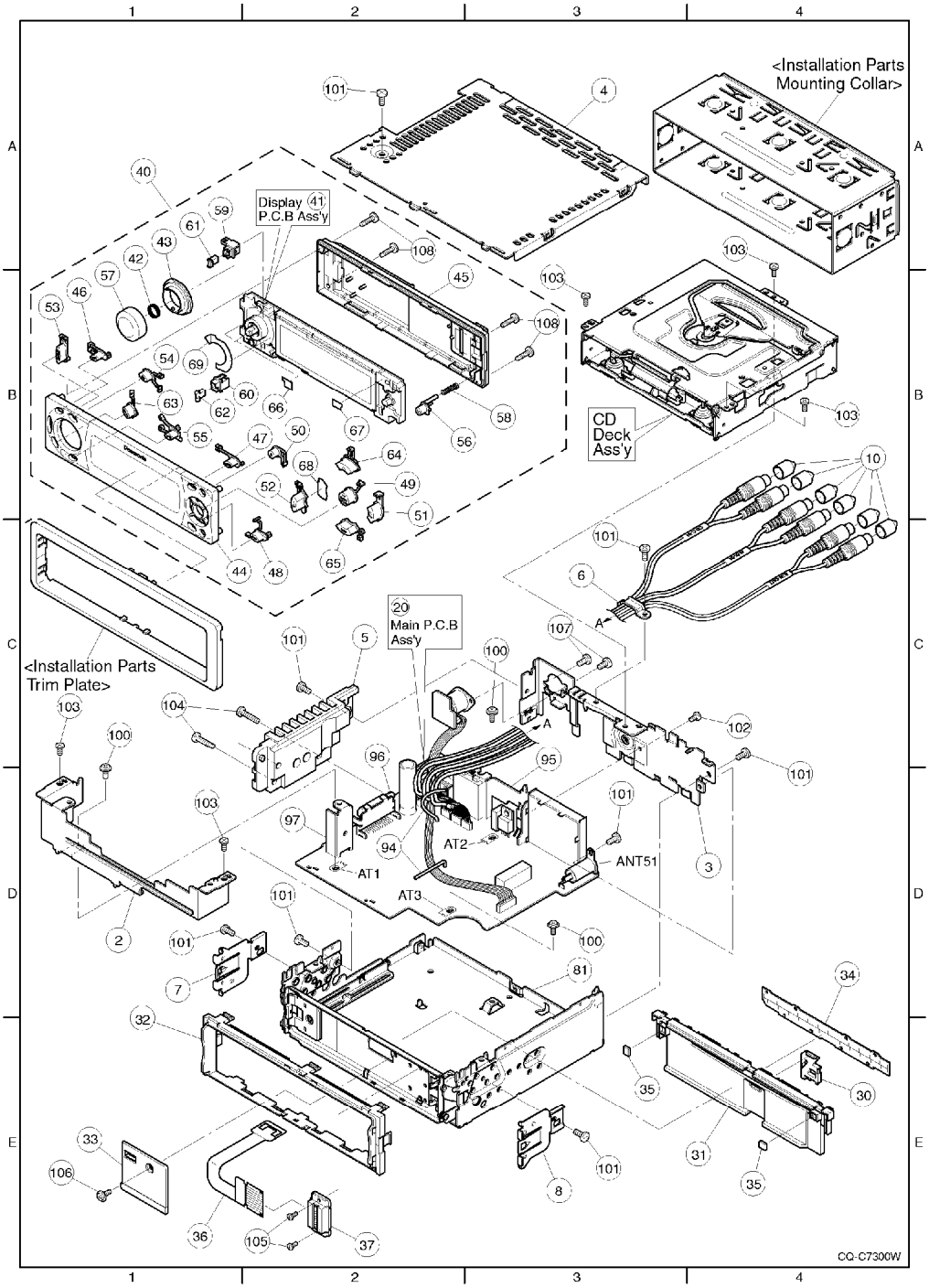
Ref. No.	Part No.	Part Name & Description	Remarks
POSISTORs			
PT701	YERT7AR4R7MT	Posistor	
SERGE PROTECTOR			
Z50	YESRTD008	Serge Protector	
Display Block [7205-05-01]			
IC's and TRANSISTORs			
IC901	YESAM168	IC	
IC905	B3MBZ0000006	IC	
Q921	YESAN061	Transistor	
Q922	YESAN061	Transistor	
Q942-944	B1ABCF000044	Transistor	
DIODEs			
D915-917	YESAD115	Zener Diode	
D920-929	YESAD115	Zener Diode	
D931	YESAD131	LED	
D932	YESAD131	LED	
D940	YESAD126	LED	
CAPACITORs			
C910	YESCC323	Ceramic, 1000pF 50WV	
C911	YESCC210	Ceramic, 1 μF 16WV	
C912	YESCC210	Ceramic, 1 μF 16WV	
C914-917	YESCC228	Ceramic, 0.1 μF 16WV	
C918	YESCC323	Ceramic, 1000pF 50WV	
C921	YESCC217	Electrolytic, 47 μF 16WV	
C922	YESCC228	Ceramic, 0.1 μF 16WV	
C923	YESCC228	Ceramic, 0.1 μF 16WV	
C924	YESCC331	Film, 0.022 μF 100WV	
C933	F1J1H562A675	Ceramic, 0.0056 μF 50WV	
C934	YESCC211	Ceramic, 12pF 3.15kWV	
C935	YESCC235	Ceramic, 0.0047 μF 50WV	
C936	F1H1H2220004	Ceramic, 0.0047 μF 50WV	
C937	F1H1H2220004	Ceramic, 0.0047 μF 50WV	
RESISTORs			
R906	YESRG094	Chip, 100 Ω 1/8W	
R907-911	YESRG095	Chip, 1k Ω 1/8W	
R912	YESRG093	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R914	YESRG093	Chip, 0 Ω 1/8W	
R921	YESRG128	Chip, 680 Ω 1/8W	
R922	YESRG119	Chip, 4.7k Ω 1/8W	
R923	YESRG119	Chip, 4.7k Ω 1/8W	
R938	YESRG121	Chip, 4.7 Ω 1/8W	
R940	YESRG122	Chip, 510 Ω 1/8W	
R941	YESRG096	Chip, 10k Ω 1/8W	
R942	YESRG117	Chip, 39k Ω 1/8W	
R946	YESRG193	Chip, 1.1k Ω 1/10W	
R947	YESRG194	Chip, 620 Ω 1/10W	
R948	YESRG124	Chip, 560 Ω 1/8W	
R949	YESRG193	Chip, 1.1k Ω 1/10W	
R950	YESRG194	Chip, 620 Ω 1/10W	
R951	YESRG124	Chip, 560 Ω 1/8W	
R952-954	YESRG096	Chip, 10k Ω 1/8W	
R955-957	YESRG093	Chip, 0 Ω 1/8W	
R961-963	YESRG109	Chip, 22k Ω 1/8W	
R962	YESRG115	Chip, 33k Ω 1/8W	
R965	YESRG115	Chip, 33k Ω 1/8W	
CONNECTORs			
CN901	YESAE364	Connector, 16P	
COILs			
L921	YESLT027	Coil	
L922	YESLT028	Coil	
SWITCHes			
SW901	YESAS121	Switch	
SW902-917	K0H1BA000445	Switch	
LCD			
LCD901	YESXDCM016	LCD	
CFL			
CFL901	A2CA00000044	CFL	
Accessories			
PRINTING			
	YEFM284148	Operating Instructions	
INSTALLATION PARTS			

Ref. No.	Part No.	Part Name & Description	Remarks
	YESAJ01223	Power Connector	
	YESFX018006	Mounting collar	
	YESFC05022	Trim Plate	
	YESFZ257	Screw Kit (Lock Cancel Plate, Bolt, Screw, Nut)	
	YESFX021127	Rear Support Strap	
	YEFA131839	Removable Face Plate Case	
	YESFZ259	Remote Control Unit	
	CR2025/1F	Lithium Battery	⚠
MECHANICAL PARTS			
MISCELLANEOUS			
ANT51	YM104C700ZA	Antenna Receptacle	
AT1-3	YESAT01028	Earth Terminal	
2	YESFA07011	Front Plate	
3	YESFA08026	Rear Plate	
4	YESFA03056	Top Cover	
5	YESFF01083	Heat Sink	
6	YESFX007026	Cord Clamper	
7	YESFX005133	Plate Spring L	
8	YESFX005134	Plate Spring R	
10	YESFR04010	RCA Cap	
20	YESAP346	Main PCB Ass'y	RTL
30	YESFX001028	Transparent Plate, CD	
31	YESFC02121	Rear Cover, Escutcheon	
32	YESFC02130	Fornt Cover, Escutcheon	
33	YESFA13015	Flexible PCB Case	
34	YESFS01086	Dust Felt	
35	YESFS01087	Pad	
36	YEAP2879	Flexible PCB	
37	K1NZ16H00001	Connector, 16P	
40	YESSDF0141	Removable Face Plate Unit	RTL
41	YESAP335	Display PCB Ass'y	RTL
42	YESFX005131	Knob Spring	
43	YESFX001029	Transparent Plate, VOL	
44	YESFC02155	Escutheon Ass'y	
45	YESFA13016	Back Cover, Detachable	
46	YESFE13190	Button (MUTE)	
47	YESFE13197	Button (MENU)	
48	YESFE13198	Button (DISP)	
49	YESFE13195	Button (BAND)	
50	YESFE13196	Button (CD EJECT)	
51	YESFE13175	Button (TUNE UP)	
52	YESFE13176	Button (TUNE DOWN)	
53	YESFE13177	Button (SOURCE)	
54	YESFE13178	Button (SQ)	
55	YESFE13179	Button (D/M)	
56	YESFE13200	Button (RELEASE)	
57	YESFE07012	Knob, VOL	
58	YESFX005153	Spring, Release	
59	YESFK04025	LED Holder (UP)	
60	YESFK04026	LED Holder (Dwn)	
61	YESFX001031	Transparent Chip, LED UP	

Ref. No.	Part No.	Part Name & Description	Remarks
62	YESFX001032	Transparent Chip, LED DWN	
63	YESFE13189	Button (COLOR)	
64	YESFE13191	Button (UP)	
65	YESFE13193	Button (DOWN)	
66	YESFV02007	Shading Sheet (SQ)	
67	YESFV02012	Shading Sheet(MENU)	
68	YESFV02008	Shading Sheet (T DWN)	
69	YESFV02009	Shading Sheet (VOL)	
81	YESFX999062	Drive Mechanism Ass'y	
94	YESFX007023	Style Pin	
95	YESFX021136	RCA Bracket	
96	YESFG02029	Power IC Bracket	
97	YESFX021134	Bracket, Regulator	
100	YESJS01183	Cup Screw S 2.6*6	
101	YESJT03067	Tapping Bind Screw S Tite M3*6	
102	YESJS01179	Bind Screw 2.6*8	
103	YESJT03066	Tapping Bind Screw S Tite M2.6*5	
104	YESJS01180	Bind Screw 3*14	
105	YESJS01181	Camera Screw 2*4	
106	YESJS01184	Cup Screw SP 2*4	
107	YESJS01166	Screw Bind 3.0*6.0	
108	YESJS01182	Camera Screw 2*8	

13. EXPLODED VIEW (Unit)



14. CD PLAYER PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.

2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of

these components, use only manufacturer's specified parts.

3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

   - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-05] CD Servo Block			
IC's and Transistors			
IC201	MN6627482WB	IC	
IC202	YESAM163	IC	
IC203	YESAM166	IC	
IC204	M5218AFP	IC	
IC401	YESAM176	IC	
IC402	YESAM243	IC	
IC406	YESAM171	IC	
IC409	YESAM167	IC	
IC411	YESAM178	IC	
Q101	B1BDBC000001	Transistor	
Q201	B1BDBC000001	Transistor	
Q203	YESAN060	Transistor	
Q501	YESAN072	Photo Transistor	
Q502	YESAN071	Transistor	
Q503	YESAN071	Transistor	
DIODEs			
PH501	LN57	LED	
CAPACITORs			
C101	YESCC203	Ceramic, 220pF 50WV	
C102	YESCC187	Ceramic, 0.1 μF 25WV	
C103	YESCC187	Ceramic, 0.1 μF 25WV	
C104	YESCC206	Ceramic, 0.047 μF 25WV	
C105	F1H1H2220004	Ceramic, 0.0022 μF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C106	YESCC207	Ceramic, 0.001 μF 50WV	
C107	YESCC206	Ceramic, 0.047 μF 25WV	
C108	YESCC204	Ceramic, 330pF 50WV	
C109	YESCC187	Ceramic, 0.1 μF 25WV	
C110	YESCC187	Ceramic, 0.1 μF 25WV	
C111	YESCC299	Ceramic, 0.022 μF 50WV	
C112	YESCC183	Ceramic, 0.0022 μF 50WV	
C113	YESCC208	Ceramic, 0.0015 μF 50WV	
C114	YESCC207	Ceramic, 0.001 μF 50WV	
C115	YESCC187	Ceramic, 0.1 μF 25WV	
C116	YESCC187	Ceramic, 0.1 μF 25WV	
C121	YESCC187	Ceramic, 0.1 μF 25WV	
C122	YESCC207	Ceramic, 0.001 μF 50WV	
C123	YESCC299	Ceramic, 0.022 μF 50WV	
C124	YESCC187	Ceramic, 0.1 μF 25WV	
C125	YESCC207	Ceramic, 0.001 μF 50WV	
C126	YESCC210	Ceramic, 0.1 μF 16WV	
C127	YESCC207	Ceramic, 0.001 μF 50WV	
C128	YESCC205	Ceramic, 0.22 μF 10WV	
C129	YESCC187	Ceramic, 0.1 μF 25WV	
C130	YESCC207	Ceramic, 0.001 μF 50WV	
C131	YESCC187	Ceramic, 0.1 μF 25WV	
C132	YESCC187	Ceramic, 0.1 μF 25WV	
C135	YESCC187	Ceramic, 0.1 μF 25WV	
C136	YESCC187	Ceramic, 0.1 μF 25WV	
C137	YESCC210	Ceramic, 0.1 μF 16WV	
C138	YESCC210	Ceramic, 0.1 μF 16WV	
C139	YESCC187	Ceramic, 0.1 μF 25WV	
C140	YESCC187	Ceramic, 0.1 μF 25WV	
C141	YESCC187	Ceramic, 0.1 μF 25WV	
C151	YESCC188	Electrolytic, 10 μF 16WV	
C152	YESCC213	Electrolytic, 22 μF 6.3WV	
C153	YESCC213	Electrolytic, 22 μF 6.3WV	
C154	YESCC215	Electrolytic, 220 μF 10WV	
C203	YESCC209	Ceramic, 0.0033 μF 50WV	
C204	YESCC209	Ceramic, 0.0033 μF 50WV	
C205	YESCC187	Ceramic, 0.1 μF 25WV	
C207	YESCC187	Ceramic, 0.1 μF 25WV	
C208	YESCC202	Ceramic, 22pF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C251	YESCC215	Electrolytic, 220 μF 10WV	
C252	YESCC214	Electrolytic, 47 μF 6.3WV	
C253	YESCC215	Electrolytic, 220 μF 10WV	
C301	YESCC207	Ceramic, 0.001 μF 50WV	
C302	YESCC207	Ceramic, 0.001 μF 50WV	
C311	YESCC207	Ceramic, 0.001 μF 50WV	
C312	YESCC207	Ceramic, 0.001 μF 50WV	
C321	YESCC187	Ceramic, 0.1 μF 25WV	
C356	YESCC213	Electrolytic, 22 μF 6.3WV	
C357	YESCC214	Electrolytic, 47 μF 6.3WV	
C358	YESCC213	Electrolytic, 22 μF 6.3WV	
C359	YESCC216	Electrolytic, 100 μF 16WV	
C360	YESCC188	Electrolytic, 10 μF 16WV	
C401	YESCC187	Ceramic, 0.1 μF 25WV	
C402	YESCC187	Ceramic, 0.1 μF 25WV	
C403	YESCC187	Ceramic, 0.1 μF 25WV	
C404	YESCC187	Ceramic, 0.1 μF 25WV	
C405	YESCC187	Ceramic, 0.1 μF 25WV	
C406	YESCC187	Ceramic, 0.1 μF 25WV	
C407	YESCC187	Ceramic, 0.1 μF 25WV	
C408	YESCC187	Ceramic, 0.1 μF 25WV	
C409	YESCC187	Ceramic, 0.1 μF 25WV	
C410	YESCC187	Ceramic, 0.1 μF 25WV	
C411	YESCC187	Ceramic, 0.1 μF 25WV	
C412	YESCC187	Ceramic, 0.1 μF 25WV	
C413	YESCC187	Ceramic, 0.1 μF 25WV	
C414	YESCC187	Ceramic, 0.1 μF 25WV	
C418	YESCC187	Ceramic, 0.1 μF 25WV	
C426	YESCC187	Ceramic, 0.1 μF 25WV	
C433	YESCC210	Ceramic, 0.1 μF 16WV	
C434	YESCC210	Ceramic, 0.1 μF 16WV	
C435	YESCC187	Ceramic, 0.1 μF 25WV	
C436	YESCC187	Ceramic, 0.1 μF 25WV	
C437	YESCC210	Ceramic, 0.1 μF 16WV	
C452	YESCC188	Electrolytic, 10 μF 16WV	
C463	YESCC214	Electrolytic, 47 μF 6.3WV	
C464	YESCC214	Electrolytic, 47 μF 6.3WV	
C501	YESCC202	Ceramic, 22pF 50WV	
C551	YESCC214	Electrolytic, 47 μF 6.3WV	

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORs			
L302	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L303	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L304	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L305	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J501	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J502	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
JP101	ERJ8GEY0R00V	Chip, 0 Ω 1/4W	
R101	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/10W	
R103	YESRG067	Chip, 1.5k Ω 1/10W	
R104	YESRG077	Chip, 470 Ω 1/10W	
R105	YESRG074	Chip, 2.7k Ω 1/10W	
R106	YESRG025	Chip, 10k Ω 1/10W	
R107	YESRG074	Chip, 2.7k Ω 1/10W	
R108	YESRG076	Chip, 390k Ω 1/10W	
R109	YESRG069	Chip, 150k Ω 1/10W	
R110	YESRG025	Chip, 10k Ω 1/10W	
R111	YESRG070	Chip, 18k Ω 1/10W	
R113	YESRG066	Chip, 120k Ω 1/10W	
R114	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R115	YESRG022	Chip, 2.2k Ω 1/10W	
R116	YESRG022	Chip, 2.2k Ω 1/10W	
R117	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R118	YESRG068	Chip, 15k Ω 1/10W	
R119	YESRG021	Chip, 1k Ω 1/10W	
R120	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R121	YESRG072	Chip, 220k Ω 1/10W	
R122	YESRG081	Chip, 56k Ω 1/10W	
R123	YESRG066	Chip, 120k Ω 1/10W	
R125	YESRG077	Chip, 470 Ω 1/10W	
R126	YESRG074	Chip, 2.7k Ω 1/10W	
R127	YESRG072	Chip, 220k Ω 1/10W	
R128	YESRG020	Chip, 220 Ω 1/10W	
R129	YESRG082	Chip, 6.8k Ω 1/10W	
R130	YESRG065	Chip, 1M Ω 1/10W	
R131	YESRG022	Chip, 2.2k Ω 1/10W	
R133	YESRG022	Chip, 2.2k Ω 1/10W	
R136	YESRG022	Chip, 2.2k Ω 1/10W	
R137	YESRG021	Chip, 1k Ω 1/10W	
R138	YESRG021	Chip, 1k Ω 1/10W	
R139	YESRG021	Chip, 1k Ω 1/10W	
R140	YESRG021	Chip, 1k Ω 1/10W	
R141	YESRG021	Chip, 1k Ω 1/10W	

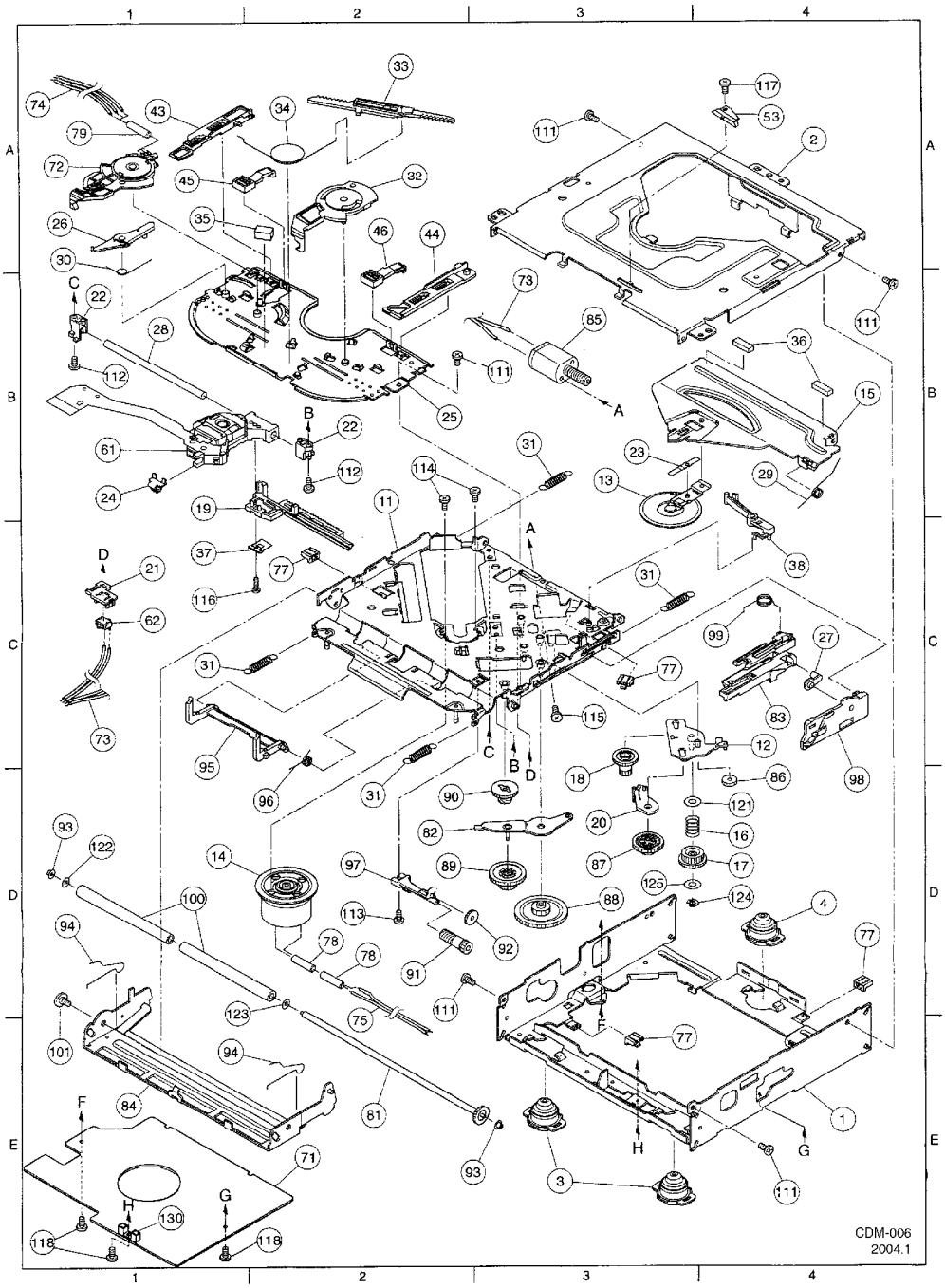
Ref. No.	Part No.	Part Name & Description	Remarks
R142	YESRG021	Chip, 1k Ω 1/10W	
R143	YESRG071	Chip, 2M Ω 1/10W	
R201	YESRG082	Chip, 6.8k Ω 1/10W	
R202	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R204	YESRG021	Chip, 1k Ω 1/10W	
R205	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R206	YESRG070	Chip, 18k Ω 1/10W	
R207	YESRG078	Chip, 5.1k Ω 1/10W	
R208	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R209	YESRG078	Chip, 5.1k Ω 1/10W	
R210	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R211	YESRG026	Chip, 27k Ω 1/10W	
R212	YESRG028	Chip, 47k Ω 1/10W	
R301	YESRG023	Chip, 3.9k Ω 1/10W	
R302	YESRG023	Chip, 3.9k Ω 1/10W	
R303	YESRG068	Chip, 15k Ω 1/10W	
R304	YESRG025	Chip, 10k Ω 1/10W	
R305	YESRG020	Chip, 220 Ω 1/10W	
R311	YESRG023	Chip, 3.9k Ω 1/10W	
R312	YESRG023	Chip, 3.9k Ω 1/10W	
R313	YESRG068	Chip, 15k Ω 1/10W	
R314	YESRG025	Chip, 10k Ω 1/10W	
R315	YESRG020	Chip, 220 Ω 1/10W	
R322	YESRG025	Chip, 10k Ω 1/10W	
R323	YESRG025	Chip, 10k Ω 1/10W	
R324	YESRG029	Chip, 100k Ω 1/10W	
R325	YESRG029	Chip, 100k Ω 1/10W	
R326	YESRG064	Chip, 100 Ω 1/10W	
R327	YESRG025	Chip, 10k Ω 1/10W	
R328	YESRG025	Chip, 10k Ω 1/10W	
R329	YESRG021	Chip, 1k Ω 1/10W	
R401	YESRG025	Chip, 10k Ω 1/10W	
R402	YESRG025	Chip, 10k Ω 1/10W	
R403	YESRG025	Chip, 10k Ω 1/10W	
R404	YESRG025	Chip, 10k Ω 1/10W	
R408	YESRG024	Chip, 4.7k Ω 1/10W	
R409	YESRG024	Chip, 4.7k Ω 1/10W	
R414	YESRG028	Chip, 47k Ω 1/10W	
R415	YESRG028	Chip, 47k Ω 1/10W	
R416	YESRG028	Chip, 47k Ω 1/10W	
R425	YESRG064	Chip, 100 Ω 1/10W	
R429	YESRG020	Chip, 220 Ω 1/10W	
R430	YESRG080	Chip, 560 Ω 1/10W	
R431	YESRG024	Chip, 4.7k Ω 1/10W	
R432	YESRG025	Chip, 10k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R434	YESRG029	Chip, 100k Ω 1/10W	
R435	YESRG024	Chip, 4.7k Ω 1/10W	
R478	YESRG079	Chip, 56 Ω 1/10W	
R480	YESRG079	Chip, 56 Ω 1/10W	
R481	YESRG024	Chip, 4.7k Ω 1/10W	
R482	YESRG022	Chip, 2.2k Ω 1/10W	
R483	YESRG022	Chip, 2.2k Ω 1/10W	
R501	YESRG020	Chip, 220 Ω 1/10W	
R502	YESRG081	Chip, 56k Ω 1/10W	
R503	YESRG025	Chip, 10k Ω 1/10W	
R504	YESRG075	Chip, 3.3k Ω 1/10W	
R505	YESRG068	Chip, 15k Ω 1/10W	
R506	YESRG028	Chip, 47k Ω 1/10W	
CONNECTORs			
CN101	YESAE345	Connector, 18P	
CN102	YESAE350	Connector, 16P	
COILs			
L401	YESLQ014	Coil	
L402	YESLQ014	Coil	
L403	YESLQ014	Coil	
L301	YESLQ011	Coil	
R428	YESLQ025	Inductor	
CRYSTAL			
X401	YESXL018	Crystal	
RESITOR NETWORKs			
RA401	YESXA003	Resistor Network, 56 ohms * 4	
RA402	YESXA003	Resistor Network, 56 ohms * 4	
RA403	YESXA003	Resistor Network, 56 ohms * 4	
RA405	YESXA003	Resistor Network, 56 ohms * 4	
RA406	YESXA003	Resistor Network, 56 ohms * 4	
RA407	YESXA003	Resistor Network, 56 ohms * 4	
RA408	YESXA003	Resistor Network, 56 ohms * 4	
RA409	YESXA003	Resistor Network, 56 ohms * 4	
RA410	YESXA003	Resistor Network, 56 ohms * 4	
RA413	YESXA003	Resistor Network, 56 ohms * 4	
RA412	YESXA002	Resistor Network, 100 ohms * 4	
RA414	YESXA002	Resistor Network, 100 ohms * 4	
Mechanical Parts			
1	YESFX046136	Frame	
2	YESFX046137	Top Cover	
3	YERFS04003	Damper F	

Ref. No.	Part No.	Part Name & Description	Remarks
4	YERFS04004	Damper R	
11	YESFX046138	Chassis Rivet Ass'y	
12	YERFX046001	Change Plate Rivet Ass'y	
13	YERFX007001	Clamper Ass'y	
14	YESAK01041	Spindle Motor Ass'y	
15	YERFX046002	Clamper Arm	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack	
20	YERFX046003	Changer Lock Lever	
21	YERFW04001	Feed Switch Holder	
22	YERFW04002	Pick-up Shaft Holder	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder	
25	YESFX046139	Top Plate	
26	YERFX046004	Select Lock Arm	
27	YERFX046006	Slide Hook	
28	YERFW01001	Pick-up Shaft	
29	YERFX005003	Clamper Arm Spring	
30	YERFX005004	Select Lock Arm Spring	
31	YERFX005013	Suspension Spring	
32	YESFX046140	Select Arm R	
33	YERFX03004	Link Plate	
34	YESFX005137	Link Plate Spring	
35	YERFS01001	Cushion F	
36	YERFS01002	Cushion R	
37	YERFX005014	Feed Spring Plate	
38	YERFX046005	Trigger Arm	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece R	
46	YERFX046011	Select Piece L	
53	YESFX046145	Optical Leader	
61	YESSZCDM002	Optical Pick-up Ass'y	
62	YERAS0001	Detection Switch	
71	YESAP328	Servo PCB Ass'y	RTL
72	YERAS0002	Mode Switch	
73	YESAJ07014	Loading Motor Wire	
74	YESAJ07015	Mode Switch Wire	
75	YESAJ07016	Spindle Motor Wire	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube Spindle Motor	
79	YESFX024022	Wire Tube Mode Switch	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YESFX046173	Lock Arm Rivet Ass'y	
85	YESAK01040	Loading/Feed Motor Ass'y	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	

Ref. No.	Part No.	Part Name & Description	Remarks
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046174	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046150	Loading Roller	
101	YESJS01175	Collar Screw	
111	YERJT01001	Tapping Screw 2*3	
112	YERJT01002	Tapping Screw 2*4	
113	YEJT03117	Tapping Bind Screw 2*4	
114	YERJS01002	Camera Screw 1.7*1.8	
115	YERJS01003	Camera Screw 2*2	
116	YERJS01004	Camera Tapping Screw 1.7*5	
117	YESJS01170	Screw 1.7*2.5	
118	YESJS01148	Screw 2*4	
121	YERJW01001	P Washer 3.5*8*0.3	
122	YERJW01002	HL Washer 1.85*5*0.13	
123	YERJW01003	Lumilar Washer 3.1*6*0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1*4*0.13	
130	YESFX014009	Sensor Holder	

15. EXPLODED VIEW (CD Deck)



16. WIRING DIAGRAM

16.1. Display Block

16.2. Main Block (Top View)

16.3. Main Block (Bottom View)

16.4. CD Servo Block (Top View)

16.5. CD Servo Block (Bottom View)

THIS PAGE IS JUST FOR THE PAGE LAYOUT USE ONLY.

17. SCHEMATIC DIAGRAM

17.1. Main Block

17.2. Display Block

17.3. CD Servo Block -1

17.4. CD Servo Block -2

18. BLOCK DIAGRAM

18.1. Main/Display Block

18.2. CD Servo Block

19. SCHEMATIC DIAGRAM for Printing with A4 Size

19.1. Main Block (Left Side)

19.2. Main Block (Right Side)

19.3. Display Block (Left Side)

19.4. Display Block (Right Side)

19.5. CD Servo Block-1 (Left Side)

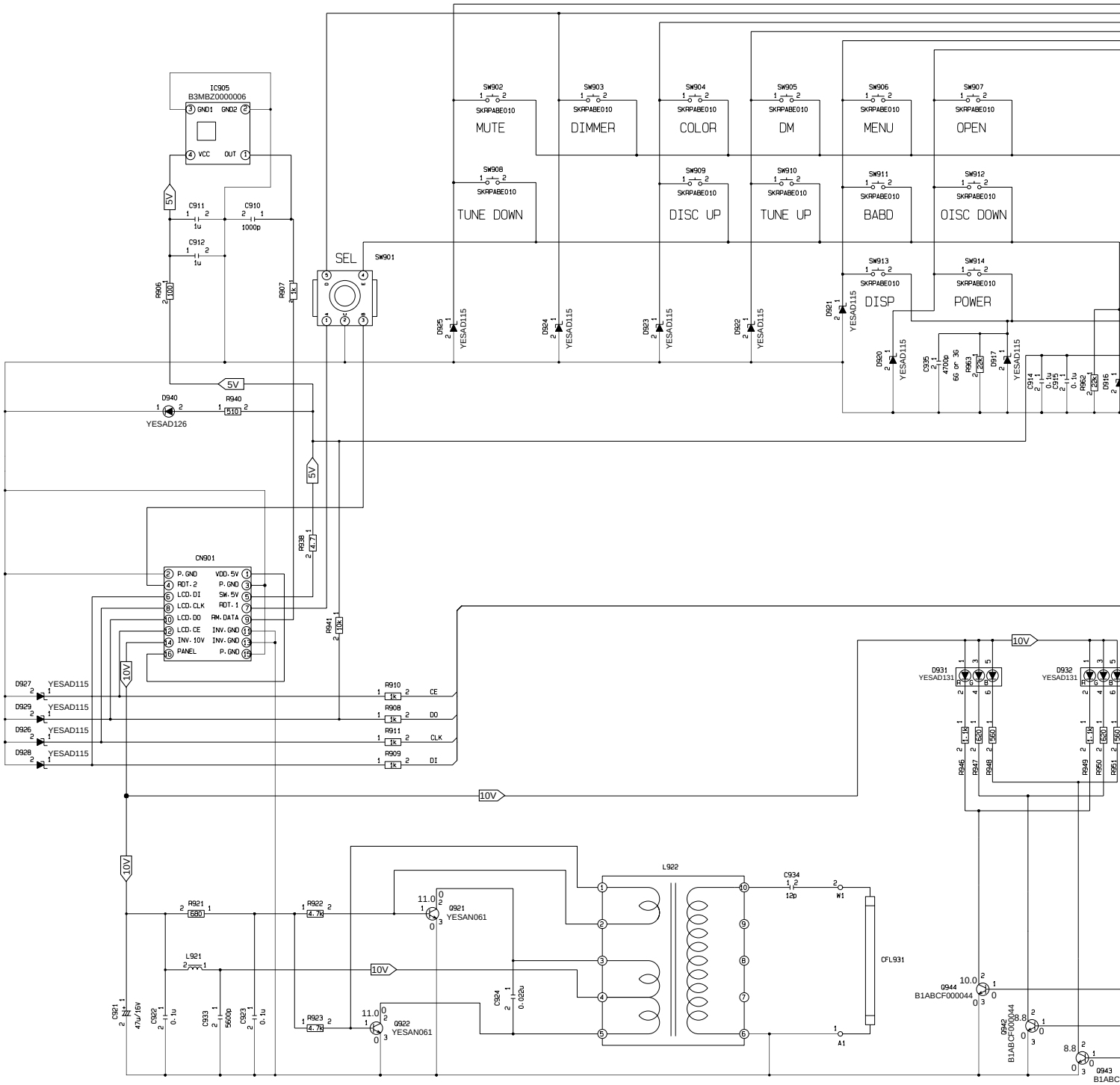
19.6. CD Servo Block-1 (Right Side)

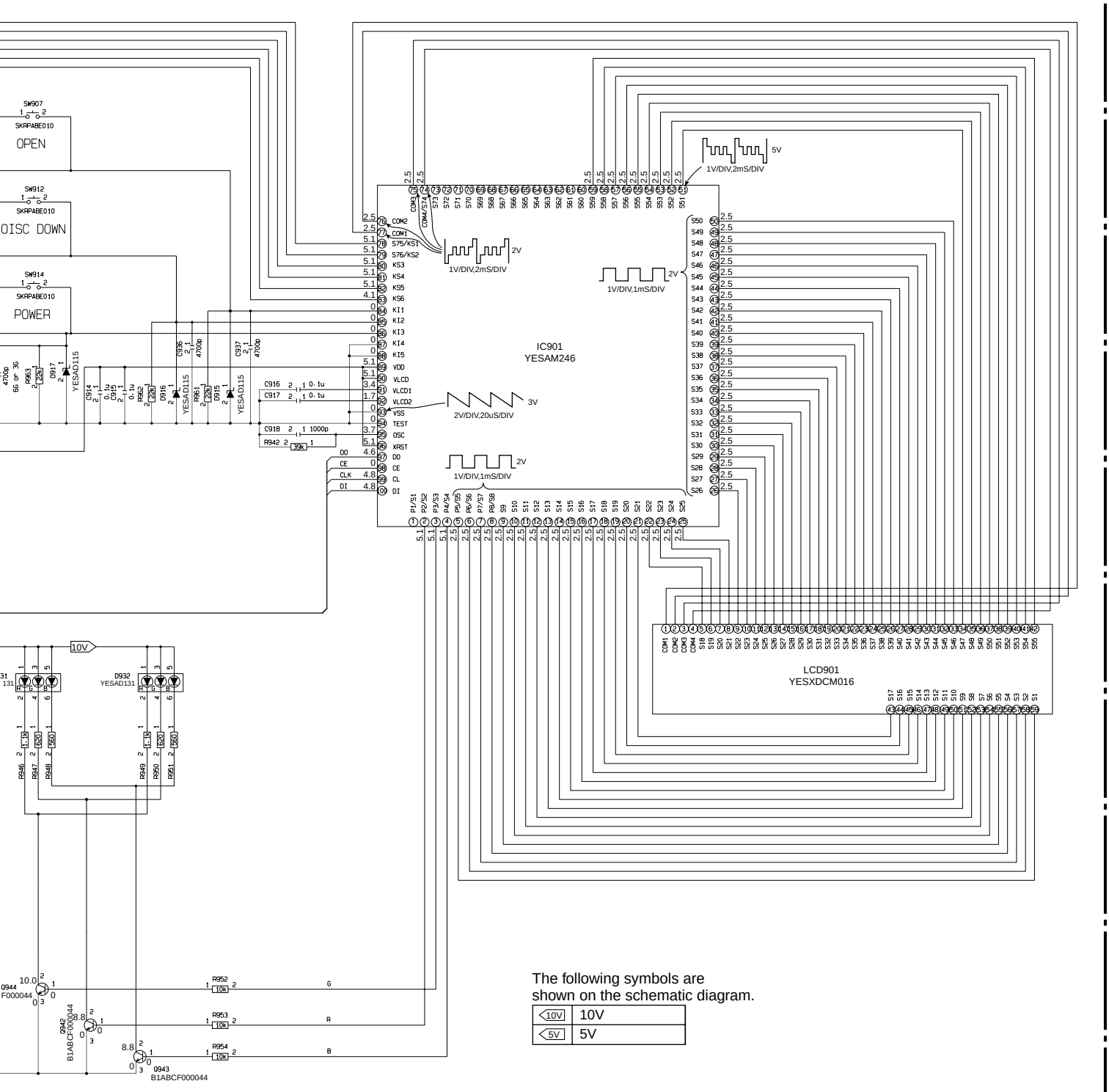
19.7. CD Servo Block-2 (Left Side)

19.8. CD Servo Block-2 (Right Side)

17.2. Display Block

7205-05-01



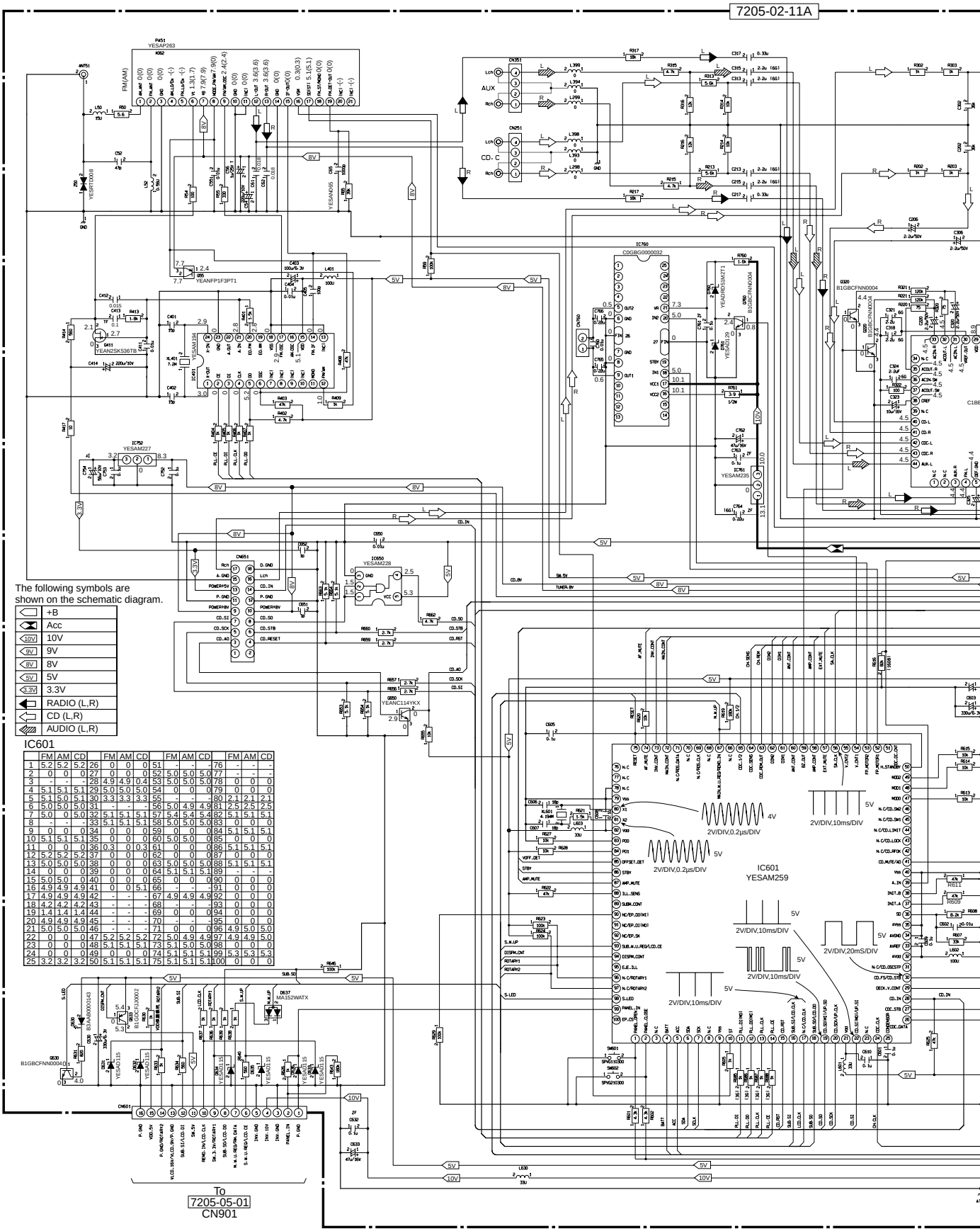


The following symbols are shown on the schematic diagram.

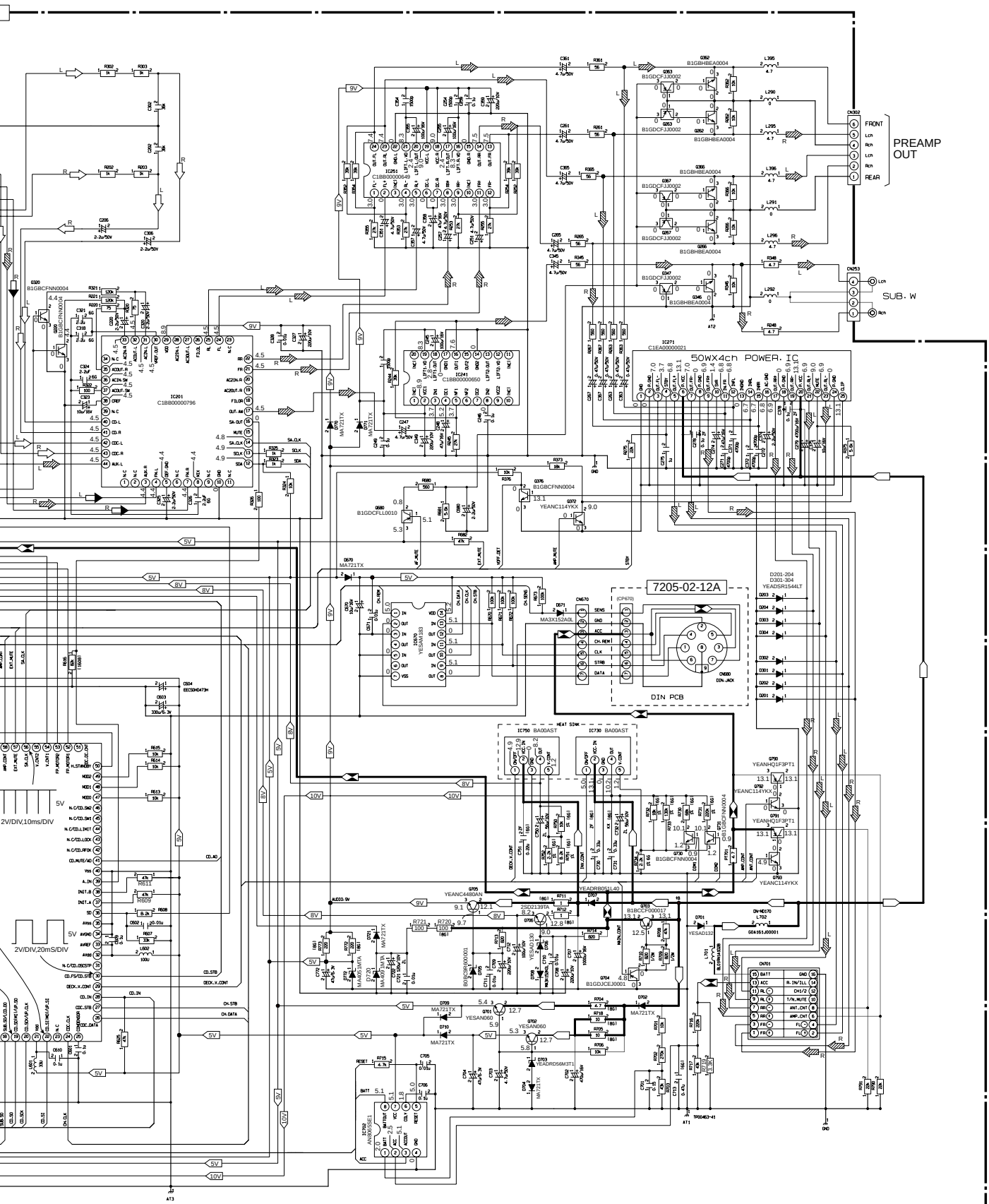
10V	10V
5V	5V

17 SCHEMATIC DIAGRAM

17.1. Main Block



	FM	AM	CD		FM	AM	CD		FM	AM	CD		FM	AM	CD
1	5.2	5.2	5.2	26	0	0	0	51	-	-	-	76	-	-	-
2	0	0	0	27	0	0	0	52	5.0	5.0	5.0	77	-	-	-
3	-	-	-	28	4.9	4.9	0.4	53	5.0	5.0	5.0	78	0	0	0
4	5.1	5.1	5.1	29	5.0	5.0	5.0	54	0	0	0	79	0	0	0
5	5.1	5.0	5.1	30	3.3	3.3	3.3	55	-	-	-	80	2.1	2.1	2.1
6	5.0	5.0	5.0	31	-	-	-	56	5.0	4.9	4.9	81	2.5	2.5	2.5
7	5.0	0	5.0	32	5.1	5.1	5.1	57	5.4	5.4	5.4	82	5.1	5.1	5.1
8	-	-	-	33	5.1	5.1	5.1	58	5.0	5.0	5.0	83	0	0	0
9	0	0	0	34	0	0	0	59	0	0	0	84	5.1	5.1	5.1
10	5.1	5.1	5.1	35	0	0	0	60	5.0	5.0	0	85	0	0	0
11	0	0	0	36	0.3	0	0.3	61	0	0	0	86	5.1	5.1	5.1
12	5.2	5.2	5.2	37	0	0	0	62	0	0	0	87	0	0	0
13	5.0	5.0	5.0	38	0	0	0	63	5.0	5.0	5.0	88	5.1	5.1	5.1
14	0	0	0	39	0	0	0	64	5.1	5.1	5.1	89	-	-	-
15	5.0	5.0	0	40	0	0	0	65	0	0	0	90	0	0	0
16	4.9	4.9	4.9	41	0	0	5.1	66	-	-	-	91	0	0	0
17	4.9	4.9	4.9	42	-	-	-	67	4.9	4.9	4.9	92	0	0	0
18	4.2	4.2	4.2	43	-	-	-	68	-	-	-	93	0	0	0
19	1.4	1.4	1.4	44	-	-	-	69	0	0	0	94	0	0	0
20	4.9	4.9	4.9	45	-	-	-	70	-	-	-	95	0	0	0
21	5.0	5.0	5.0	46	-	-	-	71	0	0	0	96	4.9	5.0	5.0
22	0	0	0	47	5.2	5.2	5.2	72	5.0	4.9	4.9	97	4.9	4.9	5.0
23	0	0	0	48	5.1	5.1	5.1	73	5.1	5.0	5.0	98	0	0	0
24	0	0	0	49	0	0	0	74	5.1	5.1	5.1	99	5.3	5.3	5.3
25	3.2	3.2	3.2	50	5.1	5.1	5.1	75	5.1	5.1	5.1	100	0	0	0



CQ-C7300W MAIN

To
7205-02-11A
CN651

3032-14-05

CN101
CDRST
CDMUTE
CD SCK
CD SO
CD SI
DC5V
DC3V
GND(M)
GND(M)
S-OUT
CD3.3V
Lch
GND(A)
GND
Rch

RESET
MUTE
CDFS
SCK
SO
SI

8V
VDD3.3V
GND
Rch
Lch
GND(M)

L302 0
L403 10u
3.3V
TP153 SYS3.3V

System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET
SW2
SW1
RESTSW

MLD
MDATA
MCLK
/RST
BLKCK
STAT
SQCK
SUBQ
CLK2

MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C

CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M

TP106 RCH
TP107 GND(A)
TP108 LCH
GND(A)

IC204(a) M5218AFP
IC204(b) M5218AFP
R305 220
R315 220
C360 10uF/16V
C321 0.1u
R304 10K
R314 10K
R302 3.9k
R312 3.9k
R303 15K
R313 15K
R301 3.9k
R311 3.9k
R324 100k
R325 100k
R322 10k
R323 10k
R327 10k
R328 10k
C301 1000p
C302 1000p
C311 1000p
C312 1000p
C356 22uF/6.3V
C358 22uF/6.3V
C137 1u
C138 1u

R329 1k
C359 100uF/16V
Q203 YESAN060

TP157 GND(M)
TP156 KICK
TP149 TVD
TP150 ECS
TP155 ECM
TP151 TRD
TP152 FOD
TP158 3.3V(D)
TP118 DSP3.3V
TP159 3.3V(A)
TP111 RFO
TP112 RFIN
TP116 FBAL
TP115 TBAL
TP105 FE
TP104 TE
TP102 Vref
TP113 GCTR
TP101 ARF
TP154 NRFDET
TP103 GND
TP138 TP

R202 0
R201 6.8k
R205 0
R204 1k
R206 18k
R129 6.8k
R208 0
R207 5.1k
R210 0
R209 5.1k
R141 1k
R142 1k
R137 1k
R138 1k
R139 1k
R140 1k

YESAM166
CH1 Spindle Motor
CH2 Feed Motor
CH3 Loading Motor (Not use)
CH4 Focus Coil
CH5 Tracking Coil

IC203 YESAM166
14 SP(-) 4.0
13 SP(+) 4.6
12 SL(+) 4.3
11 SL(-) 4.4
10
9
8 8.4
VO1(+) VO1(-) VO2(+) VO2(-) VO3(+) VO3(-) Vcc
7 1.6
6 1.6
5 3.3
4 3.0
3 1.6
2 1.6
1 8.4
VIN3 VIN2 VIN1 MUTE2 MUTE1 BIAS RVcc
VO5(-) VO5(+) VO4(-) VO4(+) GND PVcc12 PVcc45
4.3
15 T- 4.4
16 T+ 4.6
17 F- 4.1
18 F+ 0
19
20 8.4
21 8.4
22 1.6
23 1.6
24 1.0
25
26
27 1.8
28 7.8
VIN4 VIN5 RGND RE I1 RE O1 RE I2 RE O2

LN9 SL(-)
LN8 SL(+)
LN7 RESTSW
LN6 GND(M)
LN5 SW1
LN4 SW2
LN3 GND(M)
LN2 SP(-)
LN1 SP(+)
C207 0.1u
C205 0.1u
C253 220uF/10V
C251 220uF/10V

C501 22P
R506 15K
R506 47K
C505 47uF/6.3V
Q503
C252 47uF/6.3V
R211 27k
R212 47k
C208 22p
Q201 B1BDBC000001
+5V
3.3V

C203 3300p
C204 3300p
C141 0.1u
L304 0

Q101 B1BDBC000001
R101 4.7
L305 0
C151 10uF/16V
R114 0
CN102
VCC
F
E
LD
LD G
GND
A
GND
B
Vref
LPD
GND
T-
T+
F-
F+
R116 2.2k
R115 2.2k
PD
NA
NB
R117 0
LD
Optical Pick-up Ass'y

R104 470
R105 2.7k
R103 1.5k
C102 0.1u
C101 220p
C104 0.047u
C105 4700p
C106 1000p
C107 0.047u
R143 2M
C108 330p
C109 0.1u
C152 22uF/6.3V
C140 0.1u
C103 0.1u
C153 22uF/6.3V
C110 0.1u
R107 2.7k
R106 10k
R118 15k
R113 120k
R112 240k
R111 18k
R110 10k
C114 1000p
C112 2200p
C113 1500p
R109 150k
R108 390k
C111 0.022u
C136 0.1u
R130 1M
R120 0
C116 0.1u
C115 0.1u

IC202 YESAM163
PD A
LD C
VCC B
RFN D
RFOUT F
RFIN E
CAGC TBAL
ARF FBAL
CEA GCTL
3TOUT FEOUT
CBDO FEN
BDO TEN
COFTR TEOUT
OFTR TEBPF
NRFDET VDET
GND Vref
32 1.8 NB
31 1.8 C
30 1.8 NA
29 1.8 B
28 1.6 F
27 1.6 E
26 1.6 TBAL
25 1.6 FBAL
24 2.1 GCTL
23 1.6 FEOUT
22 1.6 FEN
21 1.6 TEN
20 1.6 TEOUT
19 1.6 TEBPF
18 0 VDET
17 1.6 Vref

IC201 MN6627482WB
TRV 0 21 TRV
TVD 1.6 22 TVD
23 PC
ECM 1.6 24 ECM
ECS 1.6 25 ECS
KICK 1.6 26 KICK
TRD 1.6 27 TRD
FOD 1.7 28 FOD
1.6 29 Vref
1.3 30 FBAL
1.5 31 TBAL
1.6 32 FE
1.6 33 TE
RFENV 1.6 34 RFENV
0 35 VDET
OFTR 0 36 OFT
1.5 37 TRCRS
NRFDET 0 38 /RFDET
BDO 0 39 BDO
3.1 40 LDON
PMCK/PLAY 20
SMCK 19
/RST 18 3.3
STAT 17 3.3
DMUTE 16 0
SUBQ 15 3.3
SQCK/GOD 14 3.3
BLKCK 13
/TLOCK 12
/FLOCK 11
SENSE 10
MLD 9 3.2
MDATA 8 3.2
MCLK 7 3.2
TX 6
DVss1 5 0
DVdd1 4 3.2
SRDATA 3 1.6 DATA_C_M
LRCK 2 1.6 LRCK_C_M
BCLK 1 1.6 CLK_C_M
80 1.6 CLK_M_C
SSEL 79 LRCK_M_C
1.6 MSEL 78 DATA_M_C
PSEL 77 0
CSEL 76 0.5
RSEL/GIO3 75 1.5
OUTR 74 0
AVss1 73 1.5
OUTL 72 3.0
AVdd1 71 3.2
/TEST 70 0
IOSEL 69
RESY/FLAG6 68
DEMPH 67
CRC 66
CLVS 65
FLAG 64
IPFLAG 63 0
GIO2/FCLK 62
GIO1/CLDCK 61
BYTCK/TRVSTP
PLLF2 41 0
TOFS 42 1.6
WVEL 43 1.0
ARF 44
Iref 45
DRF 46
PLLF 47 1.0
VCOF 48 1.1
AVdd2 49 0
AVss2 50 3.2
EFMCK384 51
VCOF2 52
SUBC 53
SBCK 54 1.5
Vss 55
X1 56
X2 57
Vdd 58
59 1.5
60 3.2
L303 0

JP101 SHORT
JP102 SHORT
AnalogGND
Digital GND
C121 0.1u
C357 47uF/6.3V
C132 0.1u
C139 0.1u

R131 2.2k
R136 2.2k
R133 2.2k
R122 56k
R123 120k
C123 0.022u
R121 220k
C124 0.1u
C125 1000p
R125 470
C127 1000p
R126 2.7k
C126 1u
C128 0.22u
C129 0.1u
C130 1000p
R128 220
C131 0.1u
R127 220k
R326 100
L301 100u
C135 0.1u
C154 220uF/10V
R119 1k

R501 220
PH501
R501 56k
Q501
R503 10k
Q502
R504 3.3k

The following symbols are shown on the schematic diagram.

8V	8V
3.3V	3.3V
	AUDIO(L,R)

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA

System => MP3 DSP

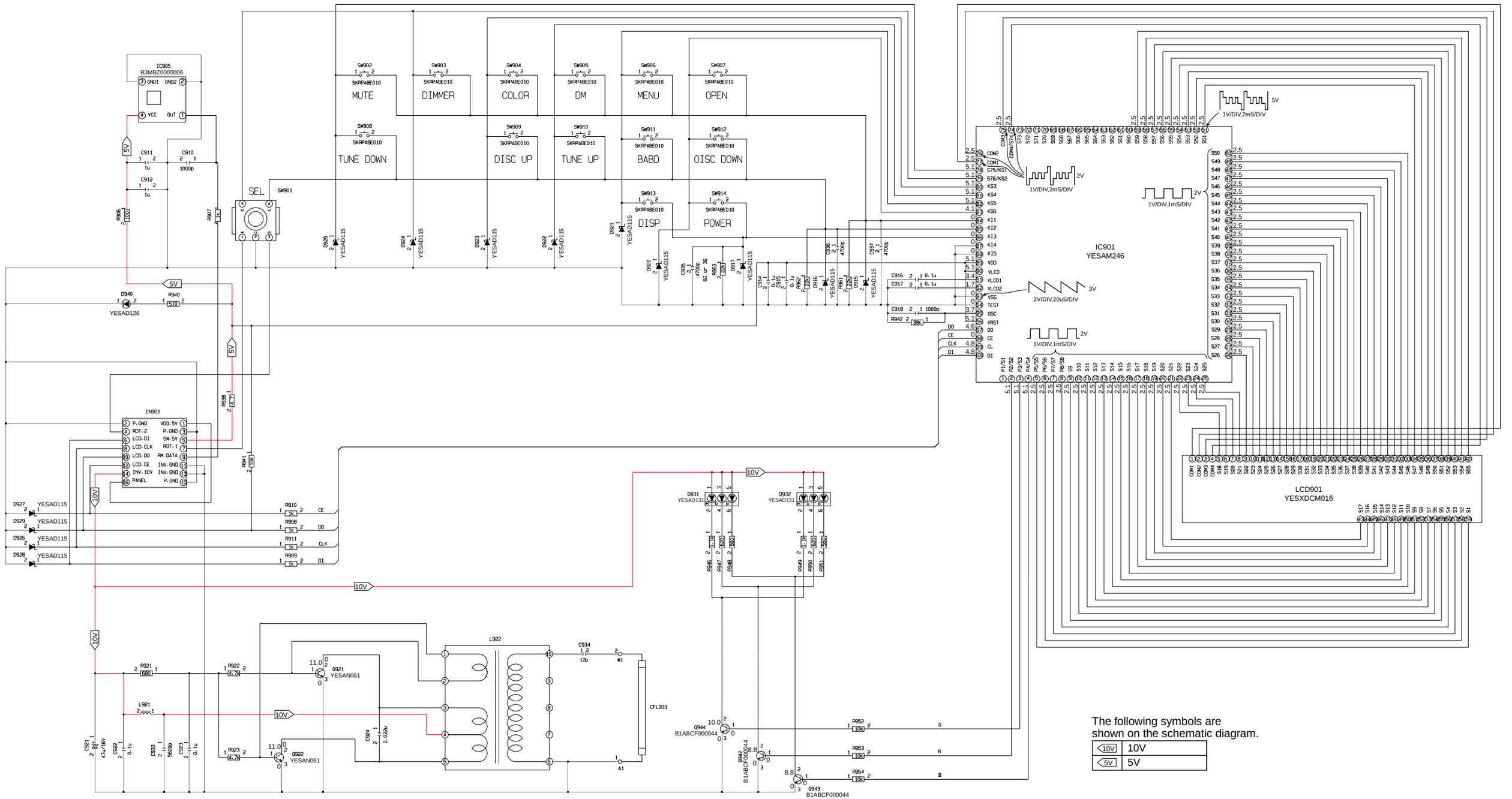
MP3 DSP => CD DSP Audio Data

CD DSP => MP3 DSP Audio Data

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA

FLASH



The following symbols are shown on the schematic diagram.

10V	10V
5V	5V

The following symbols are shown on the schematic diagram.

	+B
	Acc
10V	10V
9V	9V
8V	8V
5V	5V
3.3V	3.3V
	RADIO (L,R)
	CD (L,R)
	AUDIO (L,R)

IC601

	FM	AM	CD		FM	AM	CD		FM	AM	CD		FM	AM	CD
1	5.2	5.2	5.2	26	0	0	0	51	-	-	-	76	-	-	-
2	0	0	0	27	0	0	0	52	5.0	5.0	5.0	77	-	-	-
3	-	-	-	28	4.9	4.9	0.4	53	5.0	5.0	5.0	78	0	0	0
4	5.1	5.1	5.1	29	5.0	5.0	5.0	54	0	0	0	79	0	0	0
5	5.1	5.0	5.1	30	3.3	3.3	3.3	55	-	-	-	80	2.1	2.1	2.1
6	5.0	5.0	5.0	31	-	-	-	56	5.0	4.9	4.9	81	2.5	2.5	2.5
7	5.0	0	5.0	32	5.1	5.1	5.1	57	5.4	5.4	5.4	82	5.1	5.1	5.1
8	-	-	-	33	5.1	5.1	5.1	58	5.0	5.0	5.0	83	-	0	0
9	0	0	0	34	0	0	0	59	0	0	0	84	5.1	5.1	5.1
10	5.1	5.1	5.1	35	0	0	0	60	5.0	5.0	5.0	85	0	0	0
11	0	0	0	36	0.3	0	0.3	61	0	0	0	86	5.1	5.1	5.1
12	5.2	5.2	5.2	37	0	0	0	62	0	0	0	87	0	0	0
13	5.0	5.0	5.0	38	0	0	0	63	5.0	5.0	5.0	88	5.1	5.1	5.1
14	0	0	0	39	0	0	0	64	5.1	5.1	5.1	89	-	-	-
15	5.0	5.0	0	40	0	0	0	65	0	0	0	90	0	0	0
16	4.9	4.9	4.9	41	0	0	5.1	66	-	-	-	91	0	0	0
17	4.9	4.9	4.9	42	-	-	-	67	4.9	4.9	4.9	92	0	0	0
18	4.2	4.2	4.2	43	-	-	-	68	-	-	-	93	0	0	0
19	1.4	1.4	1.4	44	-	-	-	69	0	0	0	94	0	0	0
20	4.9	4.9	4.9	45	-	-	-	70	-	-	-	95	0	0	0
21	5.0	5.0	5.0	46	-	-	-	71	0	0	0	96	4.9	5.0	5.0
22	0	0	0	47	5.2	5.2	5.2	72	5.0	4.9	4.9	97	4.9	4.9	5.0
23	0	0	0	48	5.1	5.1	5.1	73	5.1	5.0	5.0	98	0	0	0
24	0	0	0	49	0	0	0	74	5.1	5.1	5.1	99	5.3	5.3	5.3
25	3.2	3.2	3.2	50	5.1	5.1	5.1	75	5.1	5.1	5.1	100	0	0	0

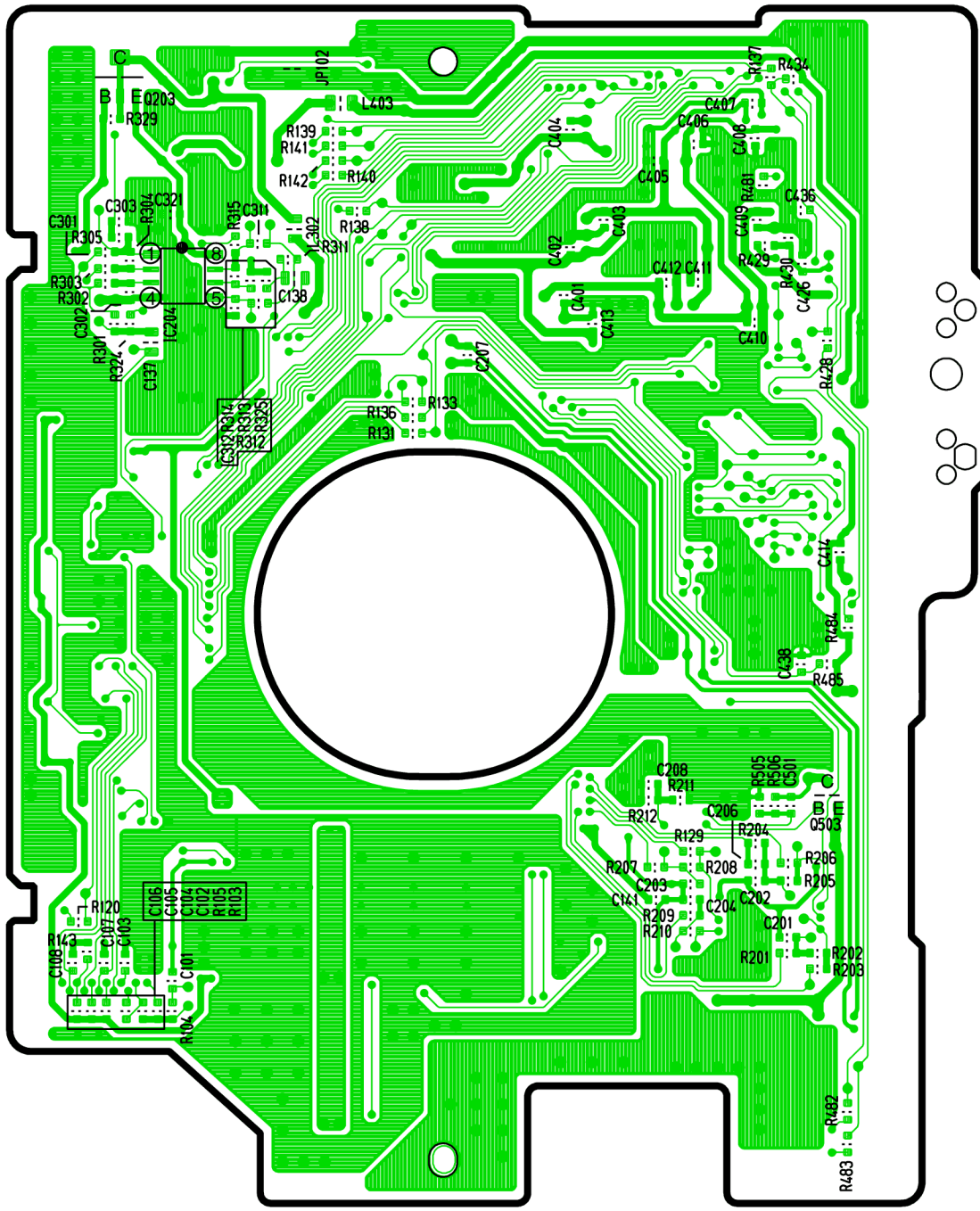
To 7205-05-01 CN901

7205-02-12A

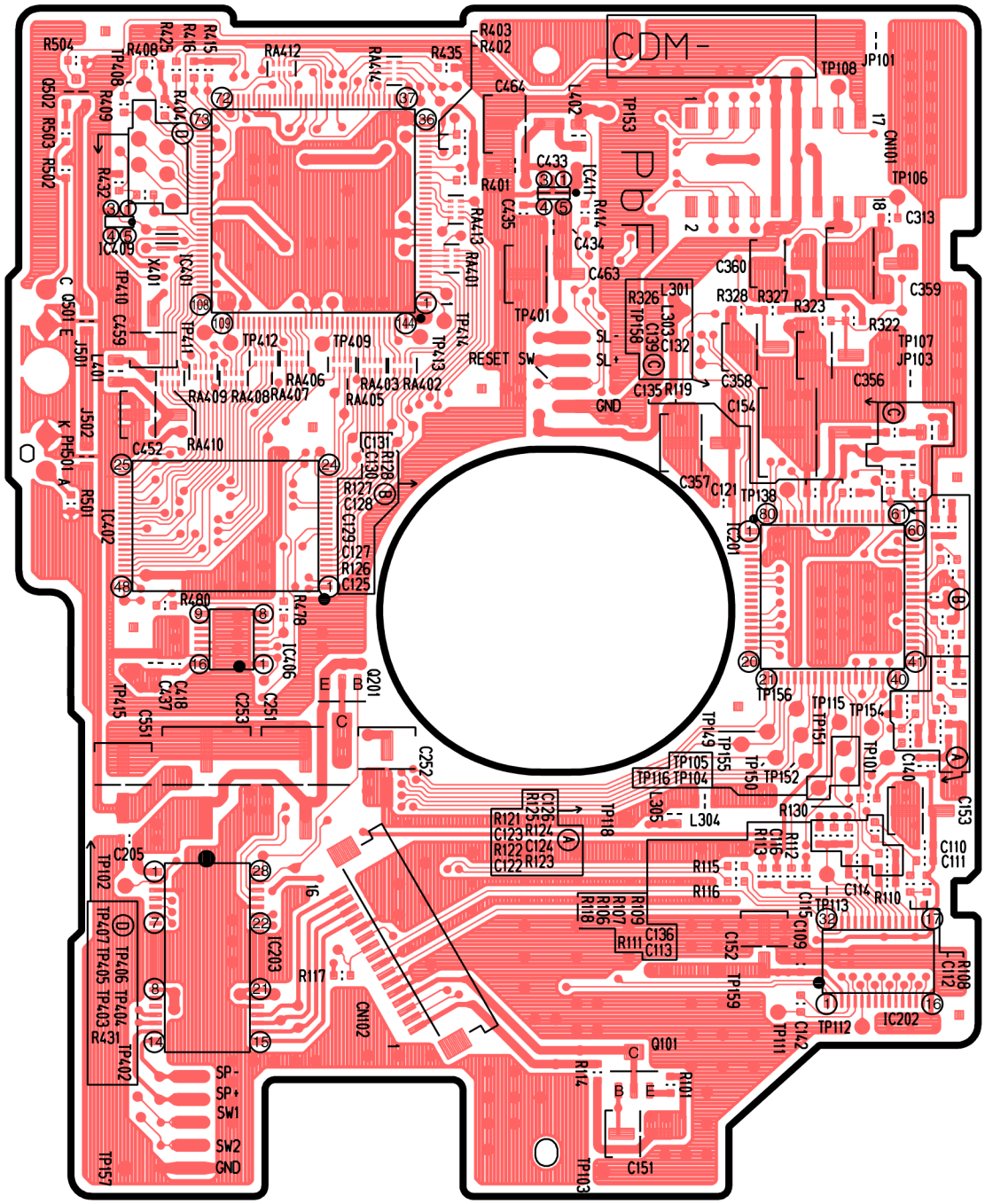
PREAMP OUT

SUB. W

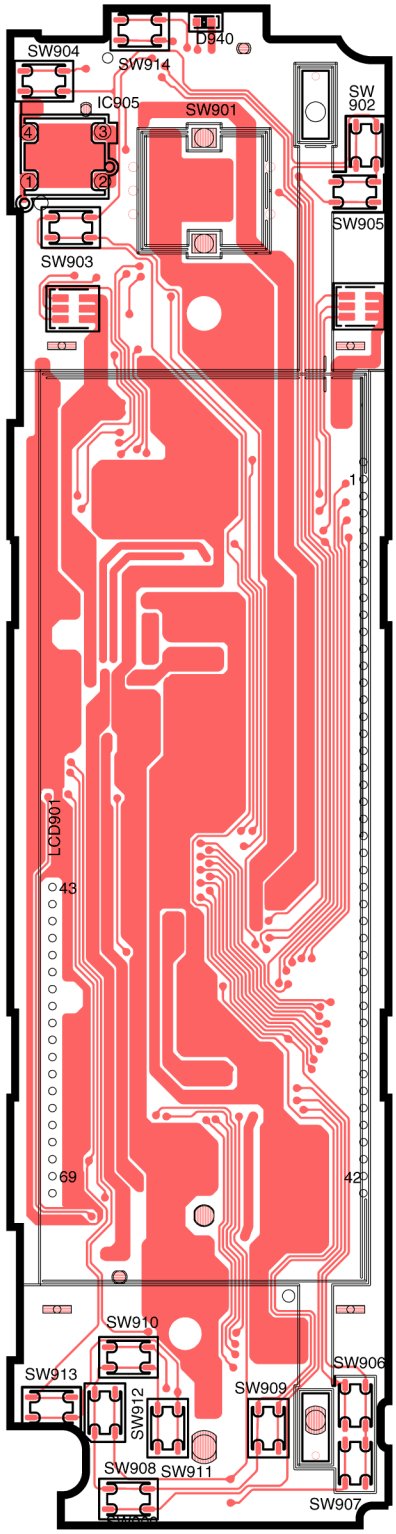
DIN PCB



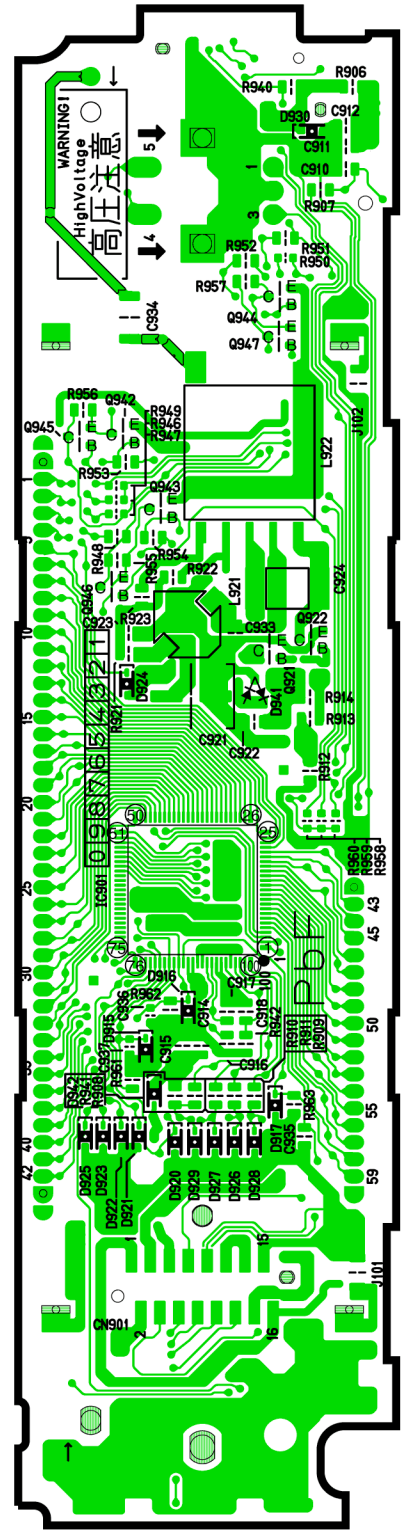
[3032-14-05] [Bottom View]



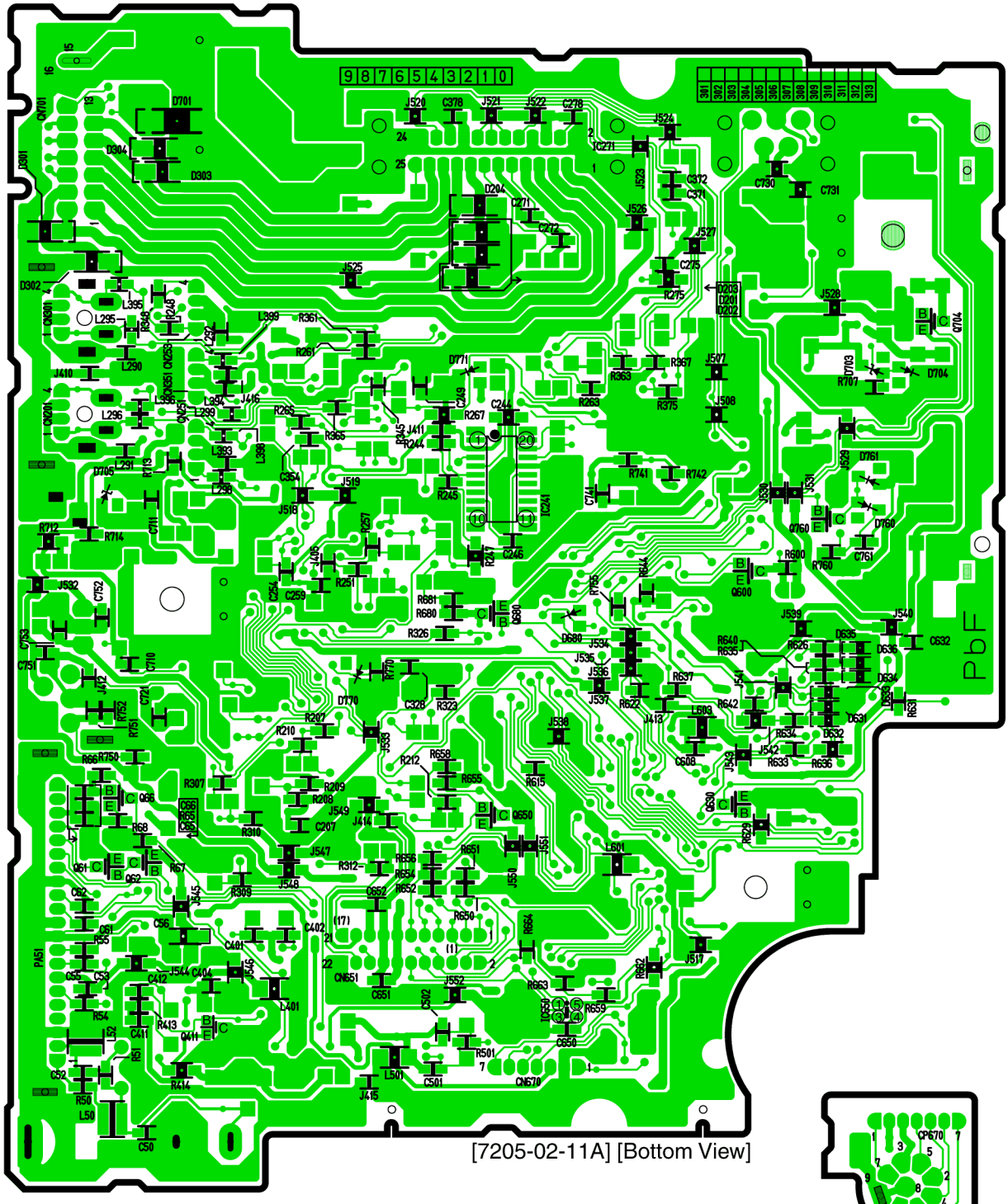
[3032-14-05] [Top View]



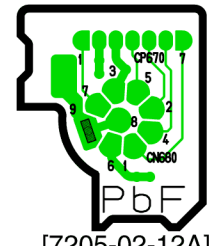
[7205-05-01] [Top View]



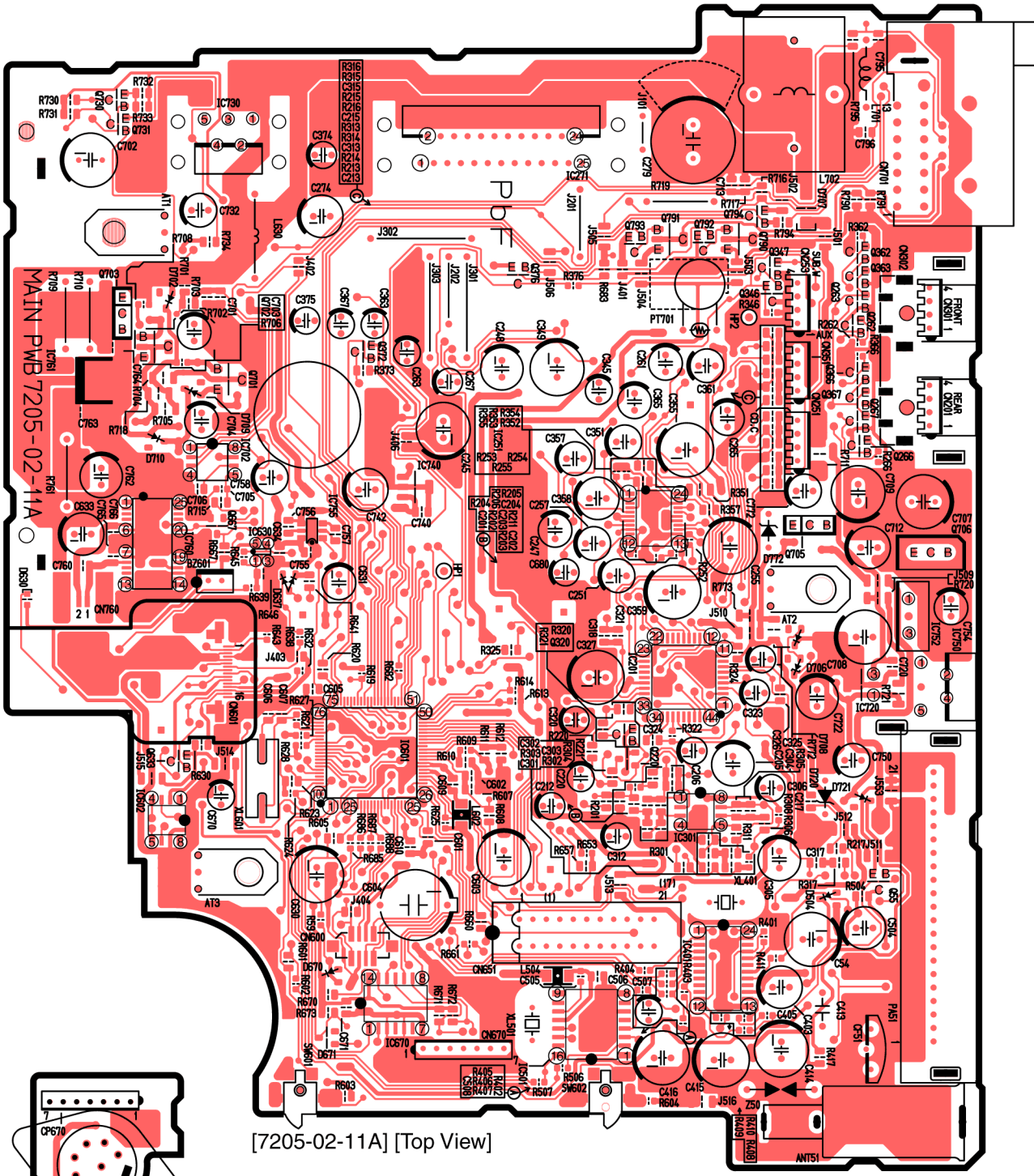
[7205-05-01] [Bottom View]



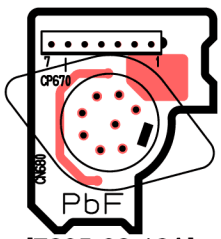
[7205-02-11A] [Bottom View]



[7205-02-12A]
[Bottom View]



[7205-02-11A] [Top View]



[7205-02-12A]
[Top View]

7205-02-11A

CDC Lch Rch CN251 R-CH
AUX Lch Rch CN351 R-CH
CN302 FRONT REAR 6 1 FL FR RL RR R-CH R-CH
SUB.W Lch Rch CN253

IC201
AUDIO SIGNAL PROCESSOR

PA51
FM/AM TUNER

ANT51
1 AM ANT
2 FM ANT
L 12
R 13 R-CH
19
VT 6
FM/AM OSC 9
IF OUT 15
MODE FM/AM 8
VSM 16
SD(ST) 17

Q411 VT LPF
Q55

IC401
PLL
20 EO FM
17 FM OSC
14 FM IF
12 FM/AM
1 X OUT
24 XIN
XL401
7.2MHz

DI 3
DO 5
CLK 4
CE 2

AUX L 44
CDC L 42
FM L 4
CD L 40
SEL
REAR
MAIN
IN-GAIN
LOUDNESS VOLUME EQLIZER
SUB WOOFER
SPECTRUM ANALIZER
FADER
MIX
FL 24
RL 26
SW 17
ACIN L 31
33

SDA 12
SCLK 13
SA OUT 16
SA CLK 14

SA CLK 56
A IN 39
SCK 7
SDA 6
ST 10
SD 36
PLL CE 14
PLL CLK 13
PLL DO(MI) 12
PLL DI(MO) 11

BZ OUT 59
Q320
Q220
BATT 4
ACC 5
RESET 75
H STANDBY 50

IC702
BATT/ACC CHECK, RESET
8 BATTOUT
3 ACCOUT
5 RESET
BATT 1 BATT
ACC 2 ACC

IC251
LINE AMP
2 FL+
5 RL+
R-CH-
SIGNAL
LIFT
FL 24
RL 23

IC241
LINE AMP
3 IN1
SIGNAL
LIFT
16 OUT1

Q262,263,
Q266,267
Q362,363
Q366,367
Q346,347

MUTE
Q680
MUTE CONTROL

IC271
POWER AMP
12 14
5 3 21 23
STBY 4
MUTE 22
CLIP 25
Q372

CN701
FL+ FL- FR+ FR- R-CH
RL+ RL- RR+ RR- R-CH
BATT
ACC
CH 1/2
AMP CNT
ANT CNT

Q790
792
PWR SW
SW+B
Q791
793
PWR SW
SW+B

Q376

X601
4,194MHz
80 X1
81 X2

AF MUTE 74
STBY 86
AMP MUTE 87
OFFSET DET 85
CDC 1/2 65
AMP CONT 58
ANT CONT 60

SW601 1 PANEL OPEN
SW602 2 PANEL CLOSE

Q701,702
5V REG
BATT
VDD1
VDD2

IC750
8V REG
BATT
CD8V

DECK V CONT 29
MAIN CONT 72

Q703,704
PWR SW
BATT
SW+B
D720
8V REG
VT8V

Q706
8V REG
BATT
TU8V

Q705
POW SW
BATT
AUD9V
D772
5V REG
SW5V

S LED 98
Q630
D630

IC601
SYSTEM CONTROL

CN651
16 Lch
17 Rch R-CH
8 CD SO
7 CD SI
5 CD SCK
6 CD STB
14 CD IN
4 CD RESET
3 CD AO Q650
9 POWER +8V
10
13 POWER +5V
IC752 5V REG
CD 8V

3V to 5V
IC650
19 CD SO(MI)
22 CD SI(MO)
20 CD SCK
30 CD STB
28 CD IN
15 CD RST
41 CD MUTE

To 3032-14-05 CN101

7205-05-01

IC901
LCD DRIVE
LCD901
1-73 S1-73
74-77 COM 1-4
80-83 KS 3-6
84-88 KI 1-5
KEY-IN MATRIX
SW901-914

DO 97
CE 98
CLK 99
DI 100

IC905
IR RECEIVE
D940
SW5V
SW901
CFL931
CFL DRIVE
Q921,922

CN901
1 9 16 10 12 8 6 5 7 4 14

CN601
15 VDD2
7 REMO IN 67
2 PANEL IN 99
8 LCK DO 18
6 LCD CE 93
10 LCD CLK 17
12 LCD DI 16
11 PWR SW VDD2
Q633
94 DISPM CONT
9 ROTARY1 96
14 ROTARY2 97
4 INV+B

IC670
BUFFER
CDC DATA 26
CDC CLK 24
CDC STB 27
CDC REM OUT 63
CDC SENS 64
V CNT1 54

CN670
7 5 6 4 1 3

7205-02-12A
(CP670)
DATA
CLK
STRB
CH REM
SENS
ACC
CN680

SW+B
Q760
LEVEL CONT

IC761
REG
SW+B
REG
D760,761

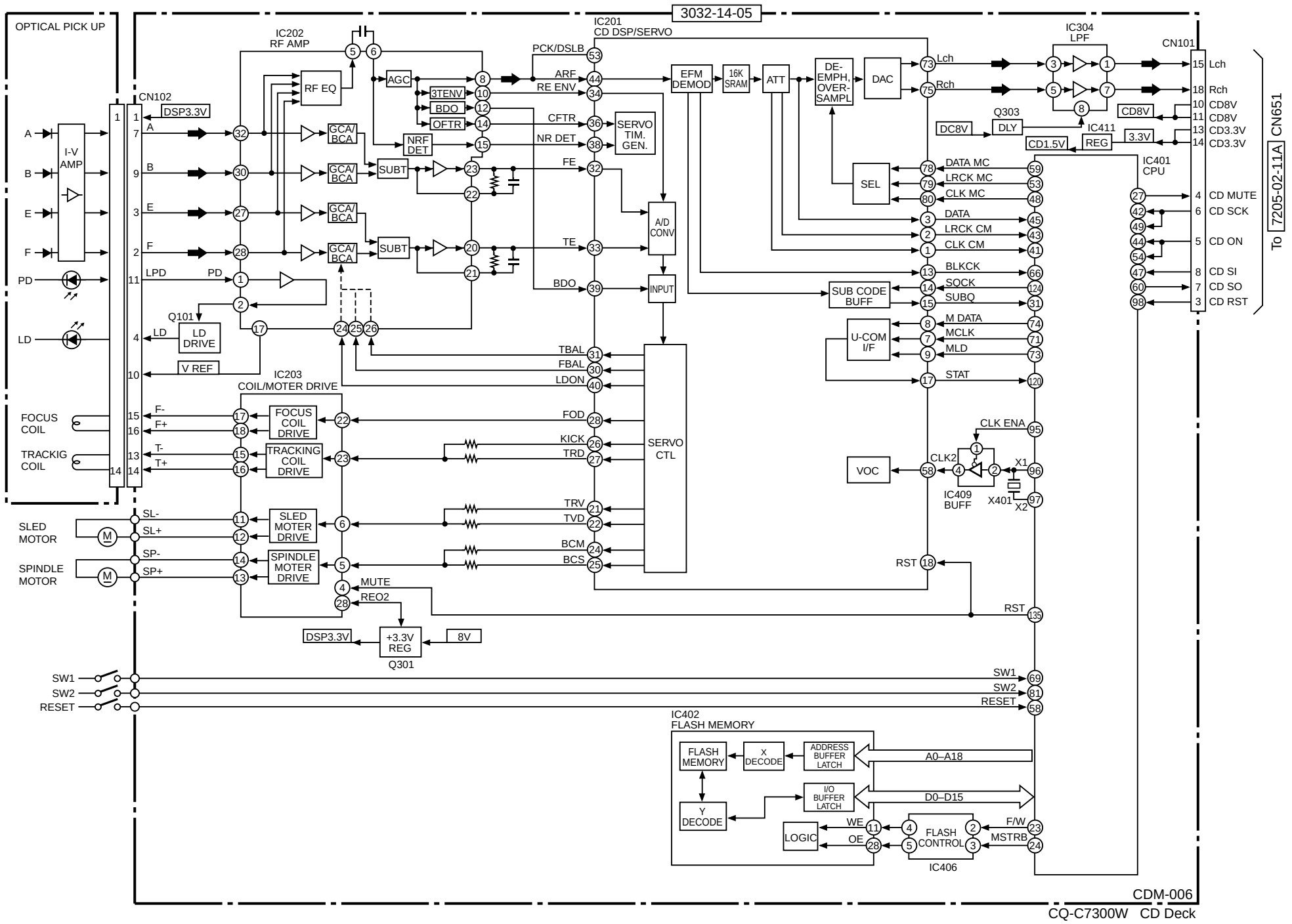
IC760
MOTOR DRIVE
21 VR
17 VCC1
16 VCC2
18 IN1
20 IN2
OUT1 9
OUT2 5
CN760 1 2

FP MOTOR1 52
FP MOTOR2 53

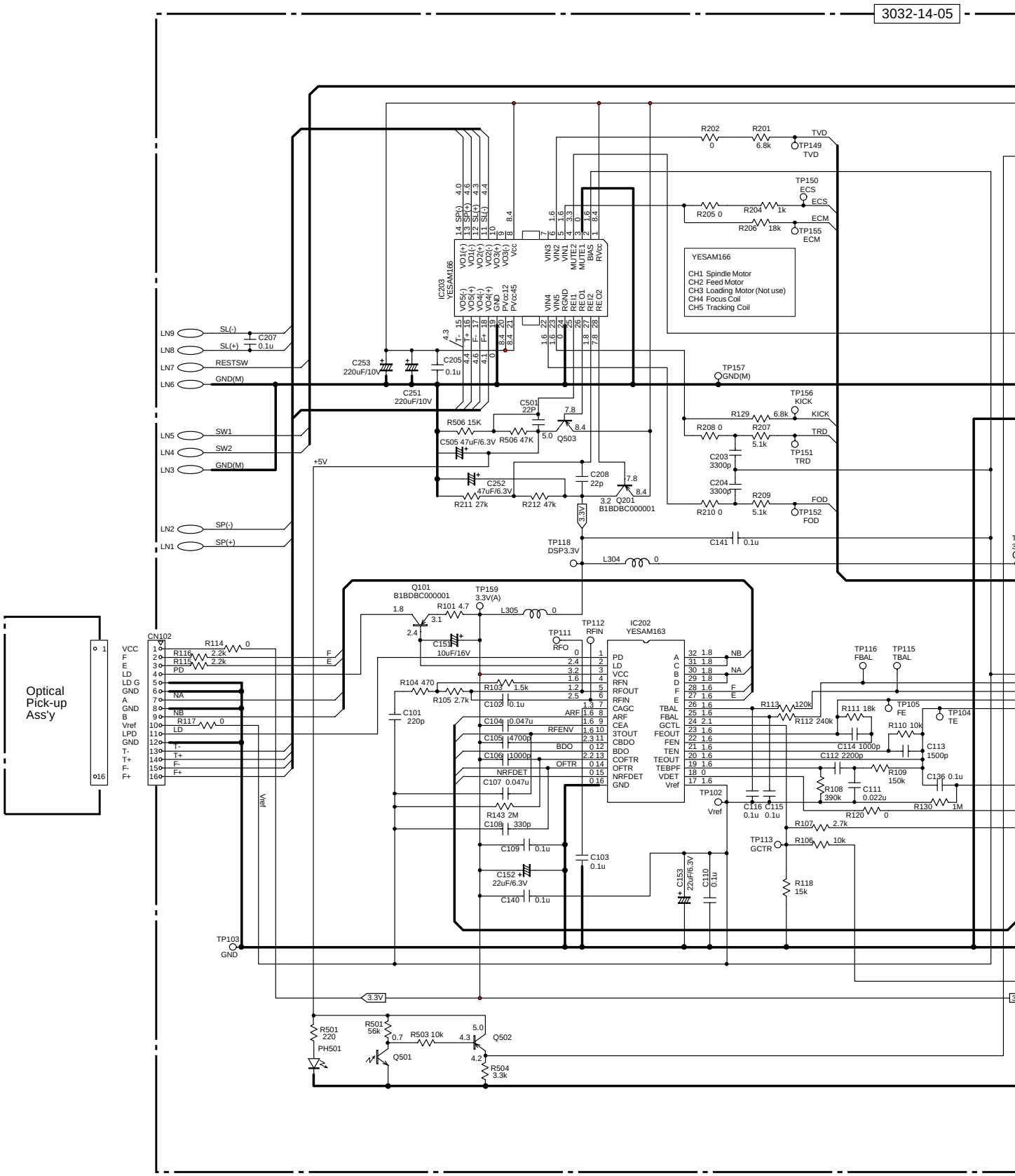
Q730,731
DIMMER CONT
DIM1 61
DIM2 53
INV CONT 73

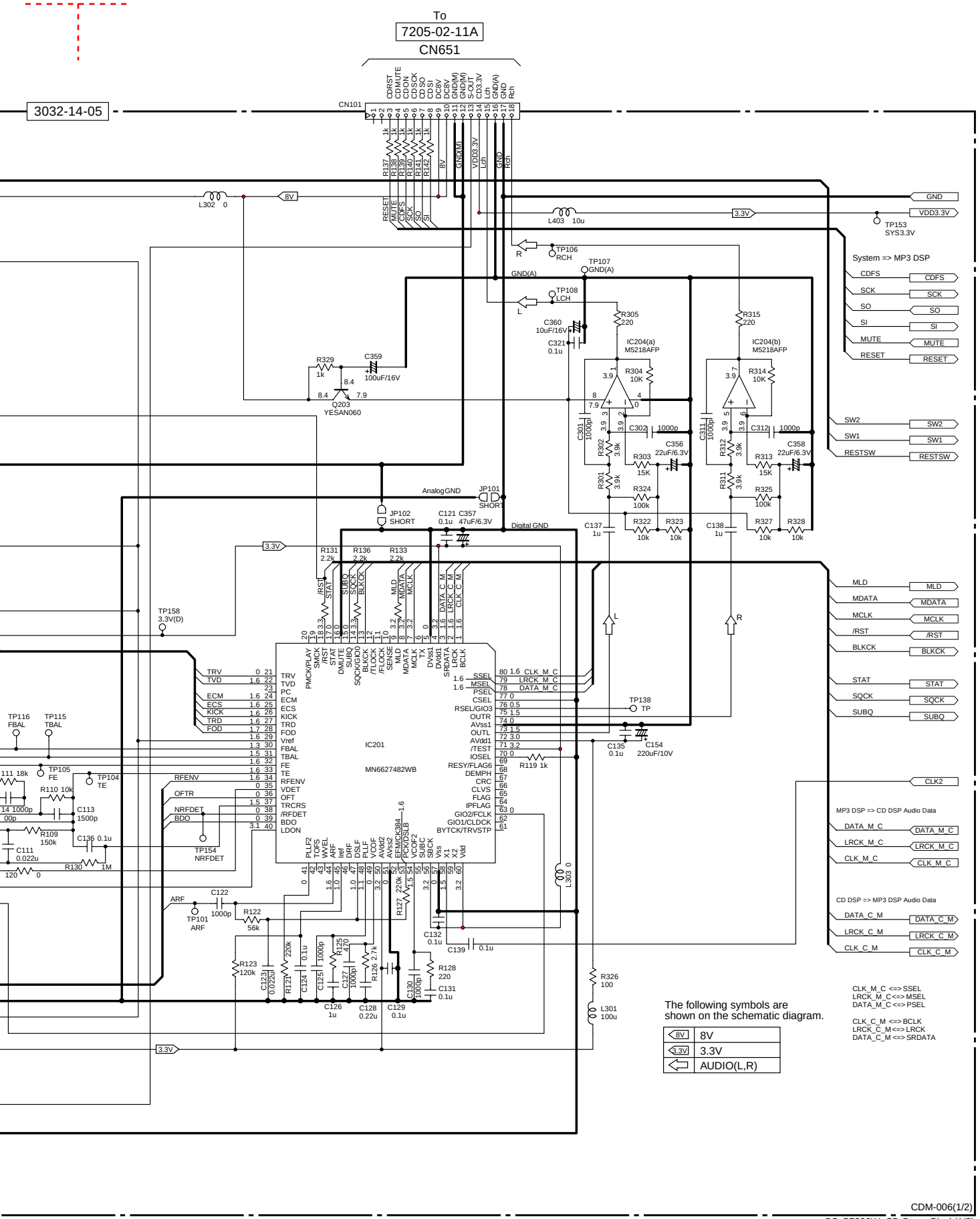
IC730
DIMMER REG
SW+B

CQ-C7300N MAIN/DISPLAY


3032-14-05
OPTICAL PICK UP
IC202
RF AMP
IC201
CD DSP/SERVO
IC304
LPF
CN101
CN102
DSP3.3V
RF EQ
AGC
3TENV
BDO
OFTR
NRF
DET
GCA/
BCA
SUBT
PCK/DSLB
ARF
RE ENV
CFTR
NR DET
FE
TE
BDO
SERVO
TIM.
GEN.
A/D
CONV
INPUT
EFM
DEMOD
16K
SRAM
ATT
DE-
EMPH,
OVER-
SAMPL
DAC
Lch
Rch
Q303
DLY
DC8V
CD8V
IC411
REG
3.3V
CD1.5V
IC401
CPU
SEL
DATA MC
LRCK MC
CLK MC
DATA
LRCK CM
CLK CM
BLKCK
SOCK
SUBQ
SUB CODE
BUFF
U-COM
I/F
M DATA
MCLK
MLD
STAT
CLK ENA
VOC
CLK2
X1
X2
X401
IC409
BUFF
RST
I-V
AMP
A
B
E
F
PD
LD
LPD
Q101
LD
DRIVE
V REF
IC203
COIL/MOTER DRIVE
FOCUS
COIL
TRACKIG
COIL
F-
F+
T-
T+
FOCUS
COIL
DRIVE
TRACKING
COIL
DRIVE
FOD
KICK
TRD
TRV
TVD
BCM
BCS
SERVO
CTL
SLED
MOTOR
SPINDLE
MOTOR
SL-
SL+
SP-
SP+
SLED
MOTER
DRIVE
SPINDLE
MOTER
DRIVE
MUTE
REO2
+3.3V
REG
Q301
8V
SW1
SW2
RESET
IC402
FLASH MEMORY
FLASH
MEMORY
X
DECODE
ADDRESS
BUFFER
LATCH
A0–A18
Y
DECODE
I/O
BUFFER
LATCH
D0–D15
LOGIC
WE
OE
FLASH
CONTROL
F/W
MSTRB
IC406
CD MUTE
CD SCK
CD ON
CD SI
CD SO
CD RST
To 7205-02-11A CN651
CDM-006
CQ-C7300W CD Deck
Printed in Japan 2004.3 (K) (Recycled Paper)

17.3. CD Servo Block -1

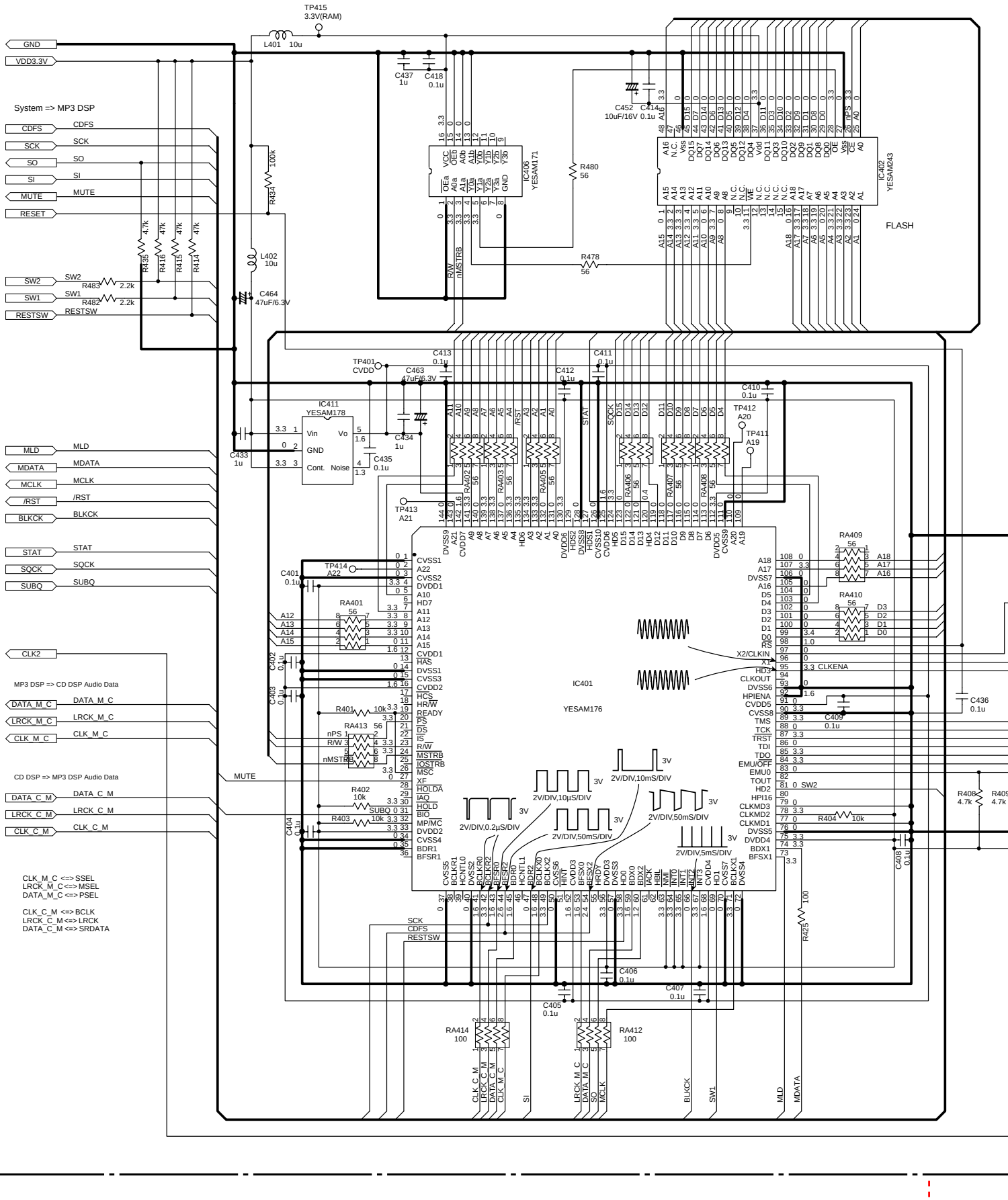


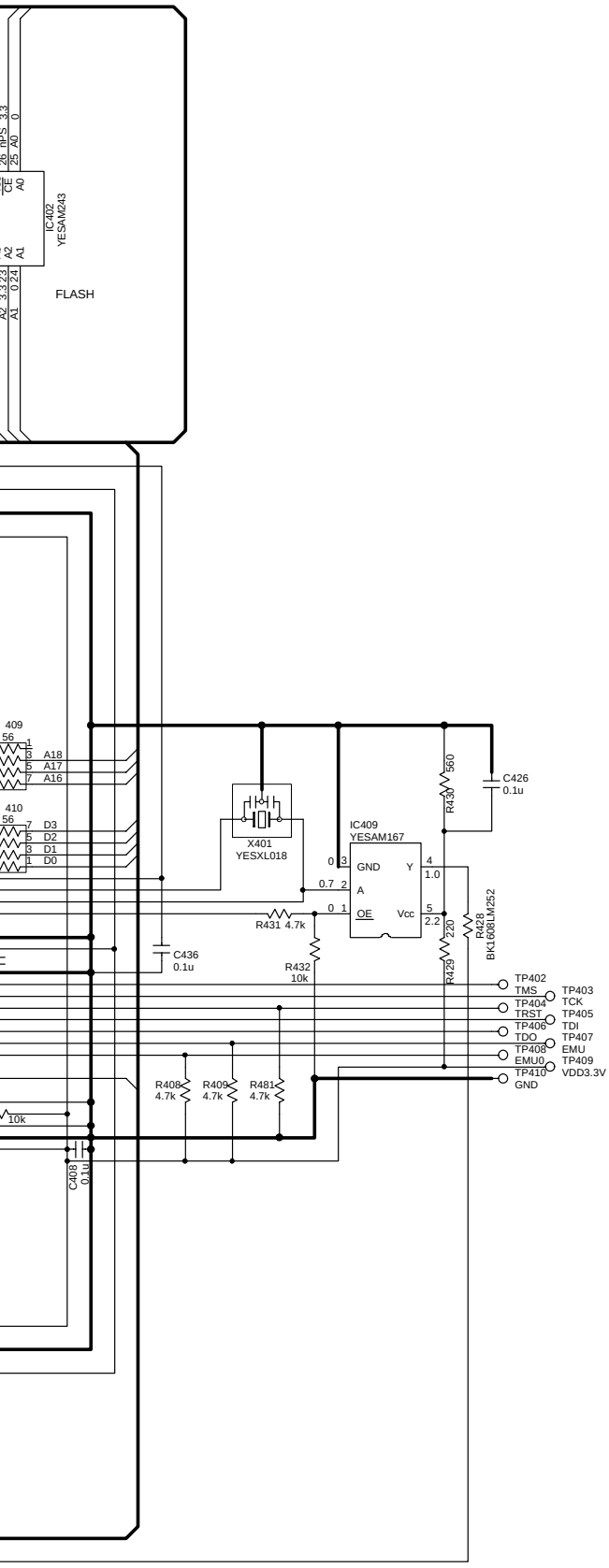


CDM-006(1/2)

CQ-C7300W CD Servo Block(1/2)

17.4. CD Servo Block -2




IC402
YESAM243
FLASH
X401
YESXL018
IC409
YESAM167
GND
A
OE
Y
Vcc
R431 4.7k
R432 10k
R430 560
R428 220
R429
BK1608LM252
C426 0.1u
C436 0.1u
C408 0.1u
R408 4.7k
R409 4.7k
R481 4.7k
TP402 TMS
TP403 TCK
TP404 TRST
TP405 TDI
TP406 TDO
TP407 EMU
TP408 EMU0
TP409 VDD3.3V
TP410 GND
A18
A17
A16
D3
D2
D1
D0